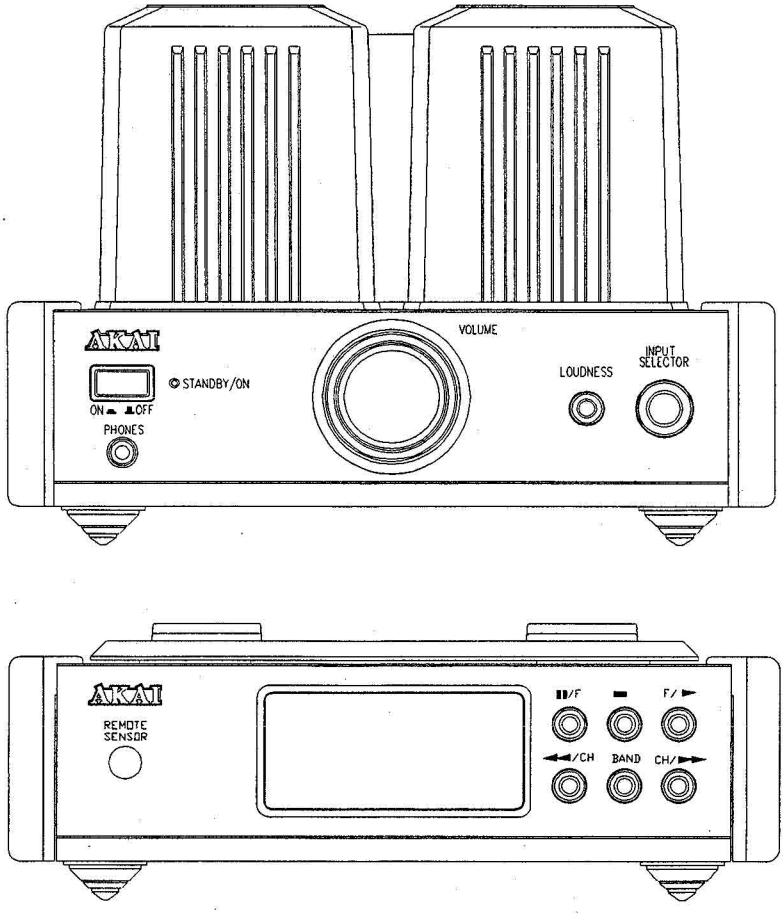
QZ-N1/N1R

AKAI SERVICE MANUAL



MODEL : QZ-N1 U5/E1/E2/E3/S1/Y2/Y4/Y6/Y7

MODEL : QZ-N1R B1/E1/E2/E3

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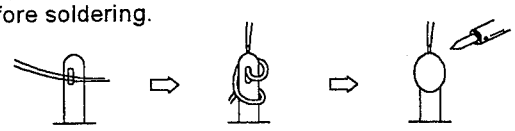
This manual is the latest at the time of printing, and does not include the modification which may be made after the printing, by the constant improvement of product.

SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ (*) symbol parts are critical for safety. Replace them only with parts whose numbers are specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
   These must also be replaced only with specified replacements.
   Examples: RF converters, tuner units, antenna selection switches, RF cables, noise-blocking capacitors, noise-blocking filters, etc.
3. Use specified internal Wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulating Tape
   2) PVC tubing
   3) Spacers (insulating barriers)
   4) Insulating sheets for transistors
   5) Plastic screws for fixing micro switches
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitor, etc.), wrap ends of wires securely about the terminals before soldering.



6. Make sure that wires do not contact heat generating parts (heat sinks, oxide metal film resistors, fusible resistors, etc.)
7. Check if replaced wires do not contact sharply edged or pointed parts.
8. Also check areas surrounding repaired parts.
9. Make sure that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.
Please leave them at an appropriate depot.

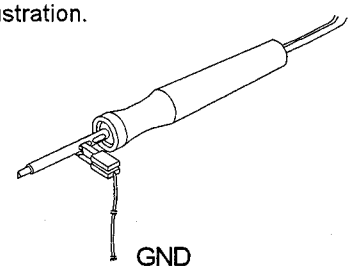
SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to check if exposed parts are acceptably insulated from the supply circuit.
The leakage-current measurement should be done between accessible metal parts, (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resister of 1500 ohm paralleled with a 0.15 μ F capacitor, under the unit's normal working condition.
The leakage-current should be less the 0.5mA rms AC.
The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch "ON" (if included). The resistance should be more than 2.2Mohms.

PRECAUTIONS IN REPAIRING

When repairing or adjusting the unit, please note the following points

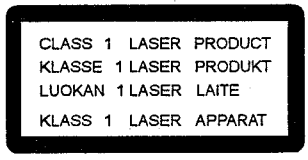
1. Do not put excessive pressure on the mechanical part (operation part), including the pick-up block, as extremely high mechanical precision is required in these parts.
2. When the base is removed for repair or adjustment. Make sure that there are no metal objects between the P.C board or the mecha parts and the base.
3. The Micro-Computer and the CD signal processing ICs may be damaged by static electricity or leakage from a soldering iron during repairing. While soldering, please take the precautions against leakage as in the illustration.

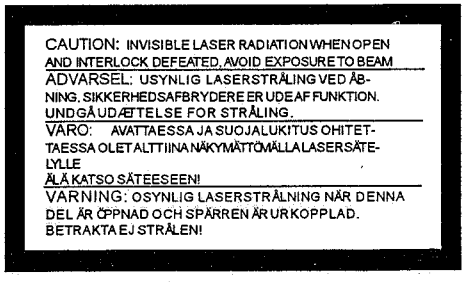


4. Do not loosen any screws in the pick-up block. Please refer to NOTE when replacing the pick up block.
5. To avoid hazardous invisible Laser Radiation, do not look at the Laser Beam (Objective lens) directly.
6. On model for some countries, laser warning labels are affixed on and inside of the unit as shown below. For your safety, read these labels carefully before repairing or adjusting the unit.

CAUTION

The use of controls or adjustments or the performance of procedures other than those specified herein may result in hazardous radiation.
[EUROPE, SCANDINAVIA, UK and AUSTRALIA]




CAUTION: INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED, AVOID EXPOSURE TO BEAM
ADVARSEL: USYNLIG LASERSTRÅLING VED ÅBNING, SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO: AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLÄ LASERSÄTEILYLLE
ÄLÄ KATSO SÄTEESEEN!
VARNING: OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN!

Label affixed on the CD MECHA BLOCK

ELECTRICAL SPECIFICATION

CONDITIONS OF SPECIFICATION MEASUREMENTS

1. STANDARDS ENVIRONMENTAL CONDITIONS
   TEMPERATURE : 23°C
   HUMIDITY : 65%
   IF NO DOUBT ARISES IN THE JUDEMENT, THE MEASUREMENT CAN BE MADE UNDER CONDITIONS OF TEMPERATURE 10 TO 35 °C AND HUMIDITY 45 TO 85%.
2. REATED POWER SUPPLY
   CEE,SAA, GB AC: 220V 50Hz
   AS, UK(BS) AC : 230V 50Hz
   EU, FZT, SEV AC : 230V 50Hz
   DISTORTION : LESS THAN 2%
3. LOAD IMPEDANCE
   SPEAKER OUTPUT : RESISTIVE LOAD AS SPECIFIED. (6 OHM)
   PREAMPLIFIER OUTPUT AND RECORDING OUTPUT : 47k OHM RESISTOR (± 5%)
4. STANDARD OPERATING CONDITIOND AND METHOD OF MEASUREMENT
   a) OPERATION METHOD, SETTING POSITION OF THE UNIT STARTING CONDITION FOR THE MEASUREMENT SHOULD BE MAINTAINED FOR TESTS OF AMPLIFIER SECTION AS EIA-RS-490, FOR TEST OF TUNER SECTION AS IHF-T-200.
   b) EXCEPT AS OTHWISE SPECIFIED HEREIN, ALL TESTS SHALL BE MEASURED AT FRONT CHANNELS AND SET THE SELECTOR POSITION

		MEASURED MODE
c)	MODULATION OF FM DODE	75KHz DEVIATION AUDIO 1KHz 75 OHM
d)	MODULATION OF FM STEREO MPX.	67.5KHz DEVIATION 7.5KHz PILOT AUDIO 1 KHz
e)	MODULATION OF MW/LW/SW MODE	30% MOD. AUDIO 1KHz
f)	REF. OUTPUT	TEST POINT

5. TEST DISCS

SONY	YEDS-7	TEST CD 3
SONY	YEDS-18	TEST CD 4
ABEX	TCD-712R	TEST CD
ABEX	TCD-725A	TEST CD
ABEX	TCD-731R	TEST CD
ABEX	TCD-782	TEST CD
PHILIPS	SBC444A	TEST CD (PLAYBILITY)

FM SECTION

FM MEASUREMENT CONDITION

1. ANTENNA INPUT : 75Ω
2. MEASUREMENT FREQUENCY : ALL VERSION
   LOWER : 88MHz
   CENTER : 98MHz
   UPPER : 108MHz
   (IN CASE OF NO COMMENT. MEASURE AT CENTER FREQUENCY)
3. MODULATION FREQUENCY : IN CASE OF COMMENT USE 1kHz MODULATION
4. MEASUREMENT INPUT LEVEL : IN CASE OF NO COMMENT. INPUT 60dB(μV/m) [dB MEANS dB (μV/m)]
5. FILTER : FILTER IS IHF-BPF(200Hz-15KHz)
6. SELECTIVITY : ARITHMETICAL MEAN OF 2 VALUES AT ±400KHz DEVIATED FREQUENCY
7. PERCENTAGE MODULATION : ALL VERSION 75kHz DEVIATION
8. MEASUREMENT POINT : TEST POINT (AT LINE OUT)

FM ELECTRICAL SPECIFICATIONS

MEASUREMENT DESCRIPTION	DESTI -NATION	SPECIFICATIONS	MEASUREMENT CONDITION/METHOD/REMARKS				
			IHF BPF	FM MODE	MEASU FREQ.	SSG LEVEL	OTHERS
1. USABLE SENSITIVITY (MONO)		LESS THAN 18dB (AT THE NORMAL TEMPERATURE) LESS THAN 20dB (AT THE OTHER CONDITION)	YES	MONO	CENTER	ADJUST	INPUT LEVEL AT IHF 3% DISTORTION

2. SENSITIVITY DEFFERENCE		LESS THAN 8dB	YES	MONO	LOWER CENTER UPPER	ADJUST	MAX. DIF. OF USABLE SENS. AT 3 FREQUENCY
3. SIGNAL TO NOISE RATIO AT 60 dBμ		MORE THAN 60 dB MORE THAN 50 dB	YES NO	AUTO	CENTER	60dBμ	OUTPUT LEVEL RATIO OF MODULATION OFF TO ON PILOT: ON, R CH: ON
4. STEREO DISTORTION AT 60dBμ		LESS THAN 2.5%	YES	AUTO	CENTER	60 dBμ	SSG MODULATOR SETS ONLY R CH. OR L CH.
5. FREQUENCY RESPONSE AT 10 KHz	EXCEPT A	-12.0dB ± 4.0 dB	NO	MONO	CENTER	60dBμ	ATTENUATION AT MODULATION FREQUENCY 10 KHz COMPARED WITH 1 KHz
6. STEREO SEPARATION		MORE THAN 30dB	YES	AUTO	CENTER	60dBμ	OUTPUT LEVEL RATIO OF MODULATION ON CH TO OFF CH
7. AUTO STOP SENSITIVITY		25dB ± 12dB		MONO	CENTER	ADJUST	MIN. INPUT LEVEL OF AUTO STOP THRESHOLD
MEASUREMENT DESCRIPTION	DESTI -NATION	SPECIFICATIONS	MEASUREMENT CONDITION/METHOD/REMARKS				
			IHF BPF	FM MODE	MEASU FREQ.	SSG LEVEL	OTHERS
8. TUNING INDICATOR SENSITIVITY		25dB ± 12dB		MONO	CENTER	ADJUST	MIN. INPUT LEVEL OF TUNED INDICATOR ON
9. STEREO INDICATOR SENSITIVITY		25dB ± 12dB		AUTO	CENTER	ADJUST	MIN. INPUT LEVEL OF STEREO INDICATOR ON
10. OUTPUT LEVEL		0dBS ± 3dB	YES	MONO	CENTER	60dBμ	MEASURE BOTH CHANNEL TEST POINT AT LINE OUT
11. MUTING SENSITIVITY		25dB ± 12dB		AUTO	CENTER	ADJUST	MIN. INPUT LEVEL OF MUTING OF THRESHOLD

MW SECTION

MW MEASUREMENT CONDITION

1. ANTENNA INPUT : LOOP ANTENNA
2. MEASUREMENT FREQUENCY :

(E B S U5 U8 Y6 Y7)			(A)
	LOWER	603kHz	600KHz
	CENTER	999kHz	1000KHz
	UPPER	1404kHz	1400KHz

(IN CASE OF NO COMMENT, MEASURE AT CENTER FREQUENCY)

3. MODULATION FREQUENCY : IN CASE OF NO COMMENT, USE 1kHz 30% MODULATION
4. MEASUREMENT INPUT LEVEL : IN CASE OF NO COMMENT, INPUT 74dB(μV/m).[dB MEANS dB(μV/m).]
5. SELECTIVITY : ARITHMETICAL MEAN OF 2 VALUES AT ±10kHz DEVIATED FREQUENCY
6. MEASUREMENT POINT : TEST POINT (AT LINE OUT)

MW ELECTRICAL SPECIFICATIONS

MEASUREMENT DESCRIPTION	DESTI -NATION	SPECIFICATIONS	MEASUREMENT CONDIATION/METHOD/REMARKS		
			MEASU. PREQ.	SG LEVEL	OTHER
1. USABLE SENSITIVITY		LESS THAN 65dB	LOWER CENTER UPPER	ADJUST	INPUT LEVEL AT DISTORTION 10%
2. S/N		MORE THAN 27dB	CENTER	74dBμ	OUTPUT LEVEL RATIO OF MODULATION OFF TO ON
3. AUTO STOP SENSITIVITY		45dB ≤AUTO STOP	CENTER	ADJUST	IMINIMUM INPUT LEVEL OF AUTO STOP THRESHOLD

		SENSITIVITY ≤74dB			
4. TUNING INDICATOR SENSITIVITY		45dB ≤TUNING IND. SENSITIVITY ≤74dB	CENTER	ADJUST	MINIMUM INPUT LEVEL OF TUNED INDICATOR ON
5. OUTPUT LEVEL		-14dBS ± 5dB	CENTER	74dBμ	MEASURE BOTH CHANNEL TEST POINT AT LINE OUT

LW SECTION

LW MEASUREMENT CONDITION

1. ANTENNA INPUT : LOOP ANTENNA
2. MEASUREMENT ALL VERSION
   LOWER : 162KHz
   CENTER : 198KHz
   UPPER : 288KHz
   (IN CASE OF NO COMMENT, MEASURE AT CENTER FREQUENCY)
3. MODULATION FREQUENCY : IN CASS OF COMMENT, USE 1kHz 30% MODULATION
4. MEASUREMENT INPUT LEVEL : IN CASE OF NO COMMENT, INPUT 74dB (μV/m) dB MEANS dB(μV/m)
5. SELECTIVITY : (ARITHMETICAL MEAN OF 2 VALUES AT±10kHz DEVIATED FREQUENCY)
6. MEASUREMENT POINT : TEST POINT (AT LINE OUT)

LW ELECTRICAL SPECIFICATIONS

MEASUREMENT DESCRIPTION	DESTI -NATION	SPECIFICATIONS	MEASUREMENT CONDITION/METHOD/REMARKS		
			MEASU. FREQ.	SG LEVEL	OTHERS
1. USABLE SENS.		LESS THAN 73dB	LOWER CNTER UPPER	ADJUST	INPUT LEVEL AT DISTORTION 10%
2. S/N		MORE THAN 25dB	CENTER	74dBμ	OUTPUT LEVEL RATIO OF MODULATION OFF TO ON
3. AUTO STOP SENSITIVITY		55dB ≤ AUTO STOP SENSITIVITY ≤ 80dB	CENTER	ADJUST	MINIMUM INPUT LEVEL OF AUTO STOP THRESHOLD
4. TUNING INDICATOR SENSITIVITY		55dB ≤ TUNING IND. SENSITIVITY ≤ 80dB	CENTER	ADJUST	MINIMUM INPUT LEVEL OF TUNED INDICATOR ON
5. OUTPUT LEVEL		-14dBS ± 5dB	CENTER	74dBμ	MEASURE BOTH CHANNEL

CD SECTION

CD MEASUREMENT CONDITION

1. MEASUREMENT POINT : TEST POINT AT LINE OUT

CD MECHANICAL SPECIFICATIONS

MEASUREMENT DESCRIPTION	SPECIFICATION	CONDITIONS	TEST DISC	TRACK NO
1. ACCESS TIME	WITHIN 5 SEC		SONY TYPE III	1→99 / 99→1
2. BALL BOUND TEST	TO BE NO AUDIBLE NOISE WHEN DROP 8g SUPER BALL FROM 3cm HEIGHT		A-BEX TCD-725	12

CD ELECTRICAL SPECIFICATIONS

MEASUREMENT DESCRIPTION	SPECIFICATION	CONDITIONS	TEST DISC	TRACK NO
1. OUTPUT LEVEL	+4dBS ± 3dB	F.S 0dB 1kHz TEST POINT AT LINE OUT	SONY TYPE III	1
2. CHANNEL SEPARATION	MORE THAN 60dB	AT 1kHz 20kHz LPF ON	SONY TYPE III	30.34
3. EMPHASIS OFF 20Hz FREQUENCY	-0.0dB ± 3dB	1kHz	SONY TYPE III	2
RESPONSE EMPHASIS OFF 20kHz	-0.0dB ±3dB	1kHz	SONY TYPE III	13

EMPHASIS ON 5kHz	-4.53dB ± 1.0dB	EMPHASIS OFF 1kHz		40
4. S/N	MORE THAN 70dB	EMPHASIS OFF 20kHz LPF ON	SONY TYPE III	23
5. DISTORTION	LESS THAN 0.7%	AT 1kHz, 20kHz LPF ON,	SONY TYPE III	1

CD ANTI DEFECT SPECIFICATIONS

MEASUREMENT DESCRIPTION	SPECIFICATION	TEST DISC	TRACK NO.
1. INTERRUPTION	THERE ARE NO CONTINUE NOISE TO 800μm	A-BEX TCD-725	4
2. BLACK DOTS	THERE ARE NO CONTINUE NOISE TO 800μm	A-BEX TCD-725	9
3. FINGER PRINT	THERE ARE NO CONTINUE NOISE AT ∅ 65μm	A-BEX TCD-725	13

AMPLIFIER SECTION

AMPLIFIER MEASUREMENT CONDITION

1. POWER OUTPUT : MEASURE WITHOUT PRE-HEATING
2. SOURCE IMPEDANCE : NORMALLY 600Ω
3. S/N : MEASURE THE NOISE LEVEL WITHOUT LOW FREQUENCY (≤20Hz) VIBRATION.
4. FREQUENCY RESPONSE : MEASURE AT -10dBs OUTPUT (1kHz) BY ADJUSTING OSCILLATOR OUTPUT.
5. DIFFERENCE OF L/R CH : THE OUTPUT LEVEL DIFFERENCE BETWEEN L CH AND R CH AT 0dBs ±6dB OUTPUT.
6. OTHER : IN CASE OF NO COMMENT, SET VOLUME MAXIMUM AND 6Ω LOAD.

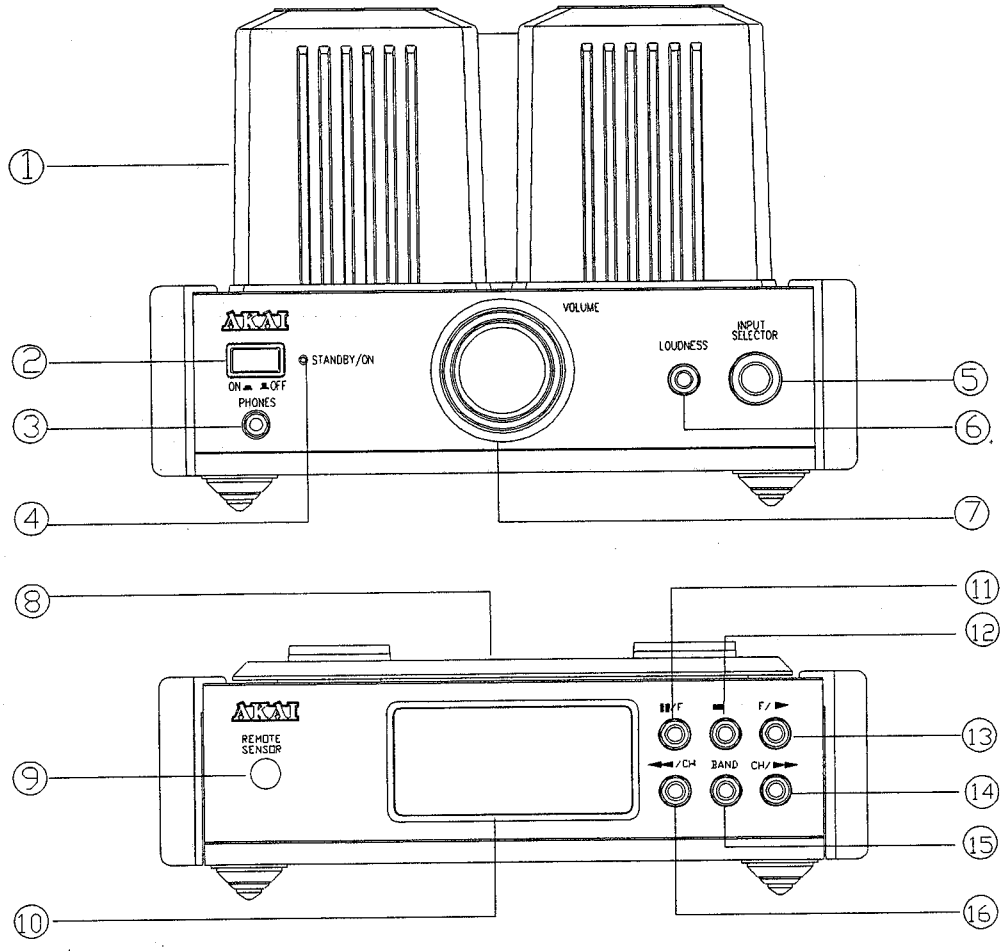
AMPLIFIER SPECIFICATIONS

MEASUREMENT DESCRIPTION	SPECIFICATIONS	MEASUREMENT CONDITIONS							MEASUREMENT METHOD/ REMARKS
		TEST POINT	INPUT SELECTOR	INPUT SIGNAL FREQ.	INPUT SIGNAL LEVEL	OUT PUT LEVEL	VOL.	SOURCE DIRECT	
1. POWER OUTPUT	> 20W (10.9V)	SP OUT FRONT	LINE	1kHz	ADJUST	ADJUST THD 1%	MAX		BOTH CHANNEL DRIVE/6Ω LOAD
2. DISTORTION	LESS THAN 0.8%	SP OUT	LINE	1kHz	ADJUST	15W (9.5V)	MAX		BOTH CHANNEL DRIVE/6Ω LOAD READ BEST VALUE WHEN INDICATOR OF DISTORTION METER IS CHANGING
3. LINE INPUT SENSITIVITY	-6.0dBS ± 4dB	SP OUT	LINE	1kHz	ADJUST	20W	MAX		
4. S/N LINE NOISE LEVEL	LESS THAN -45.0dBS	SP OUT	LINE	4.7KΩ TERMINATE		---	MAX		
5. CHANNEL SEPERATION	MORE THAN 45dB	SP OUT	LINE	1kHz	ADJUST	+15dBS	MAX		MEASURE A RATIO OF LEAK LEVEL OF L→R, R→L MEASURED CHANNEL INPUT TERMINAL AUX: 4.7KΩ TERMINATE
6. FREQUENCY RESPONSE	-1dB ± 2dB -1dB ± 2dB	SP OUT	LINE	20Hz 20kHz	ADJUST	+3dBS	MAX	---	MEASURE THE LEVEL DIFFERENCE FROM 1kHz OUTPUT
7. RESIDUAL NOISE	LESS THAN -50.0dB	SP OUT	LINE TAPE	NOME		MIN			
8. LOUDNESS	+8dB ± 4dB +6dB ± 4dB	100Hz 10KHz	LINE	1KHz	ADJUST	--	30BAR		DIFFERENCE FROM 1KHz OUT PUT AT LOUDNESS ON STATUS

*For improvement purpose, specifications and design are subject to change without notice.

CONTROL LOCATION

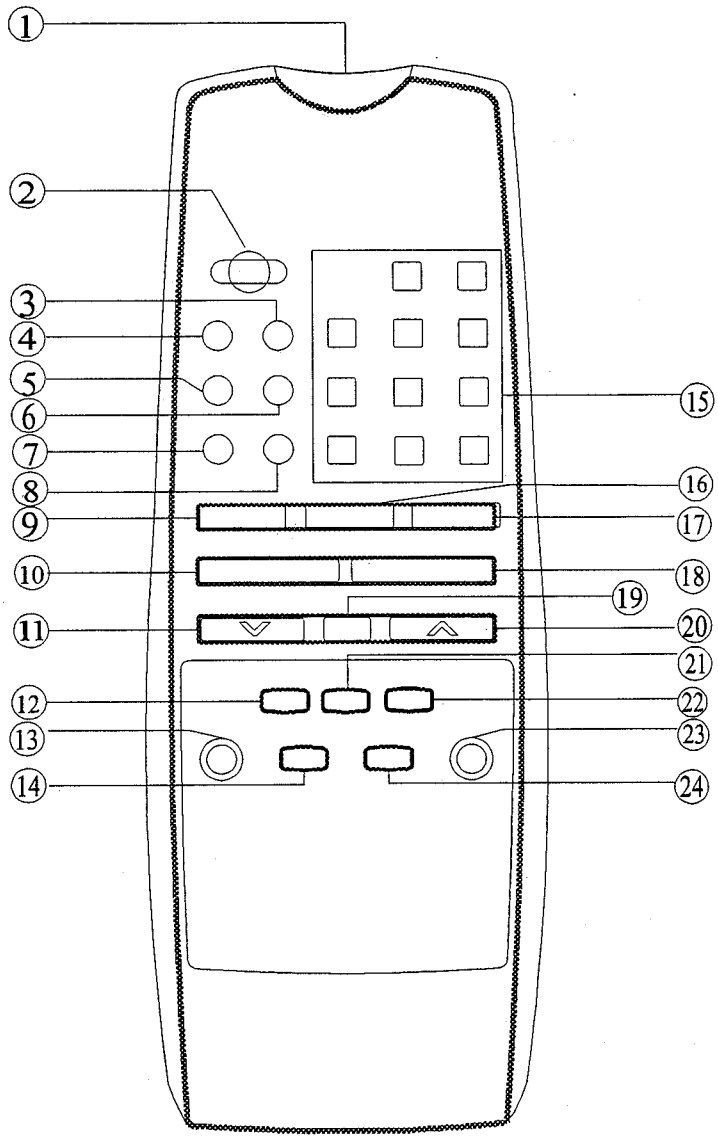
A. MAIN



1. Amplifier
2. Power button to switch the system on and off
3. Earphones socket
4. Standby/ON indicator
5. INPUT SELECTOR button
6. LOUDNESS control button
7. VOLUME control knob
8. Disc tray
9. REMOTE SENSOR reciever window
10. FLD display
11. Pause button
12. Stop button
13. Playback button
14. Fast forword button
15. BAND button to switch to radio reception
16. Fast backward button

B. REMOTE HANDSET UNIT

1.Remote LED
2.STANDBY/ON button
3.DISPLAY button
4.PROG/PTY button
5.RANDOM/AF button
6.SELECT REPEAT button
7.INTRO/TP button
8.CLEAR button
9.Fast backward button
10.Pause button
11.Volume down button
12.TUNER button
13.CH MEMO button
14.BALANCE button
15.Nunber buttons(1-10)
16.Stop button
17.Fast forward button
18.Play button
19. MUTE button
20.Volume up button
21.CD button
22.LINE button
23. LOUDNESS button
24.BALANCE button



ELECTRICAL ADJUSTMENT

CD PLAYER SECTION

FOCUS OFFSET ADJUSTMENT (SEE FIG.1)

1. TEST DISC :SONY TYPE III
2. Press "INPUT SELECTION" to select "CD"mode.
   Press "PLAY" key to start CD playing.
3. Detecting and Adjusting points:
   JP518 and VR300
4. Connect the hot of Probe of AC milivoltmeter to JP518 on the CD system PCB and GND of Probe to the chassis. Adjust the VR300 on the CD system PCB until indication of AC milivoltmeter is maximum.

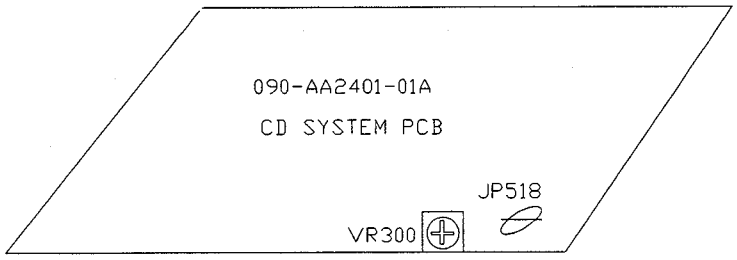
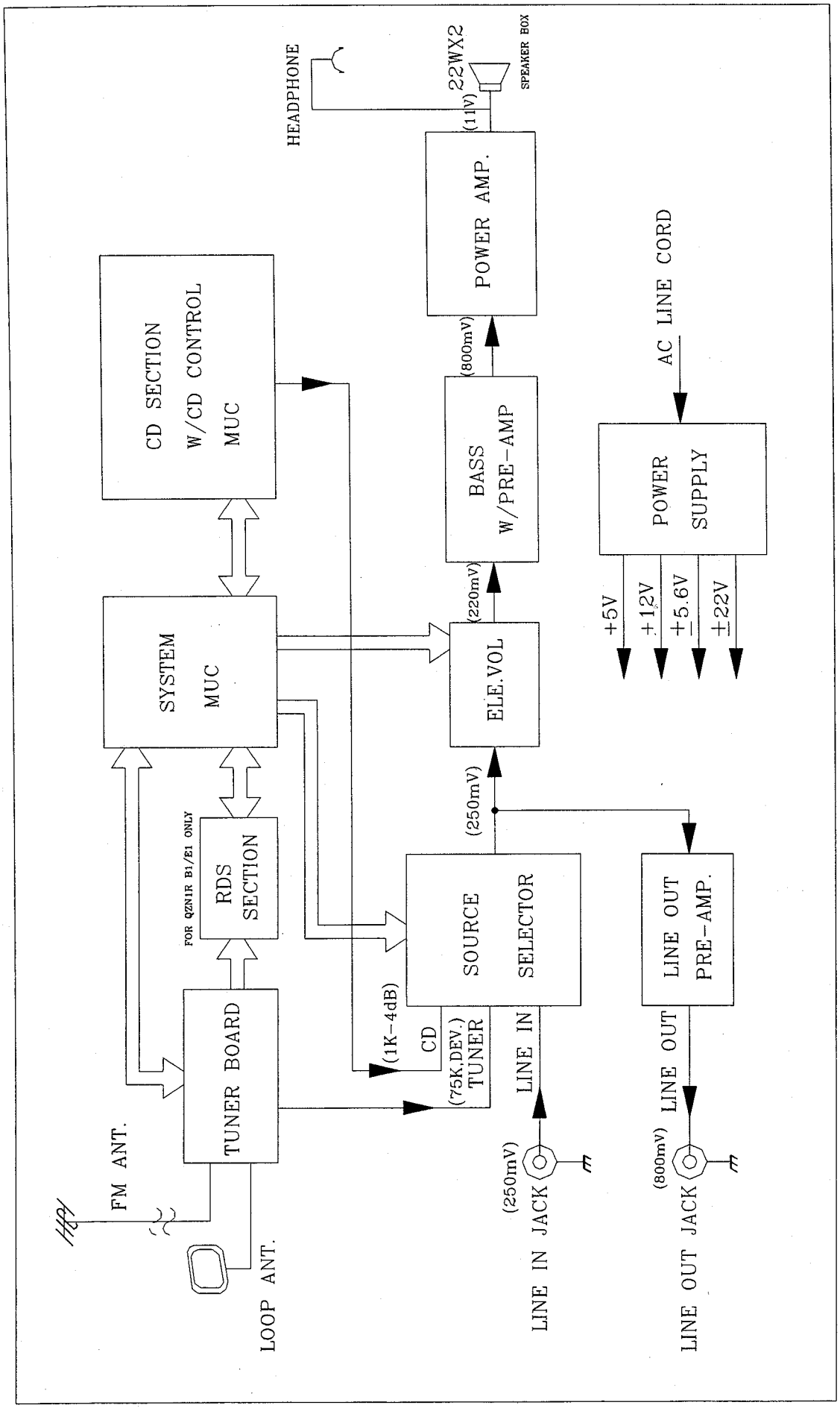
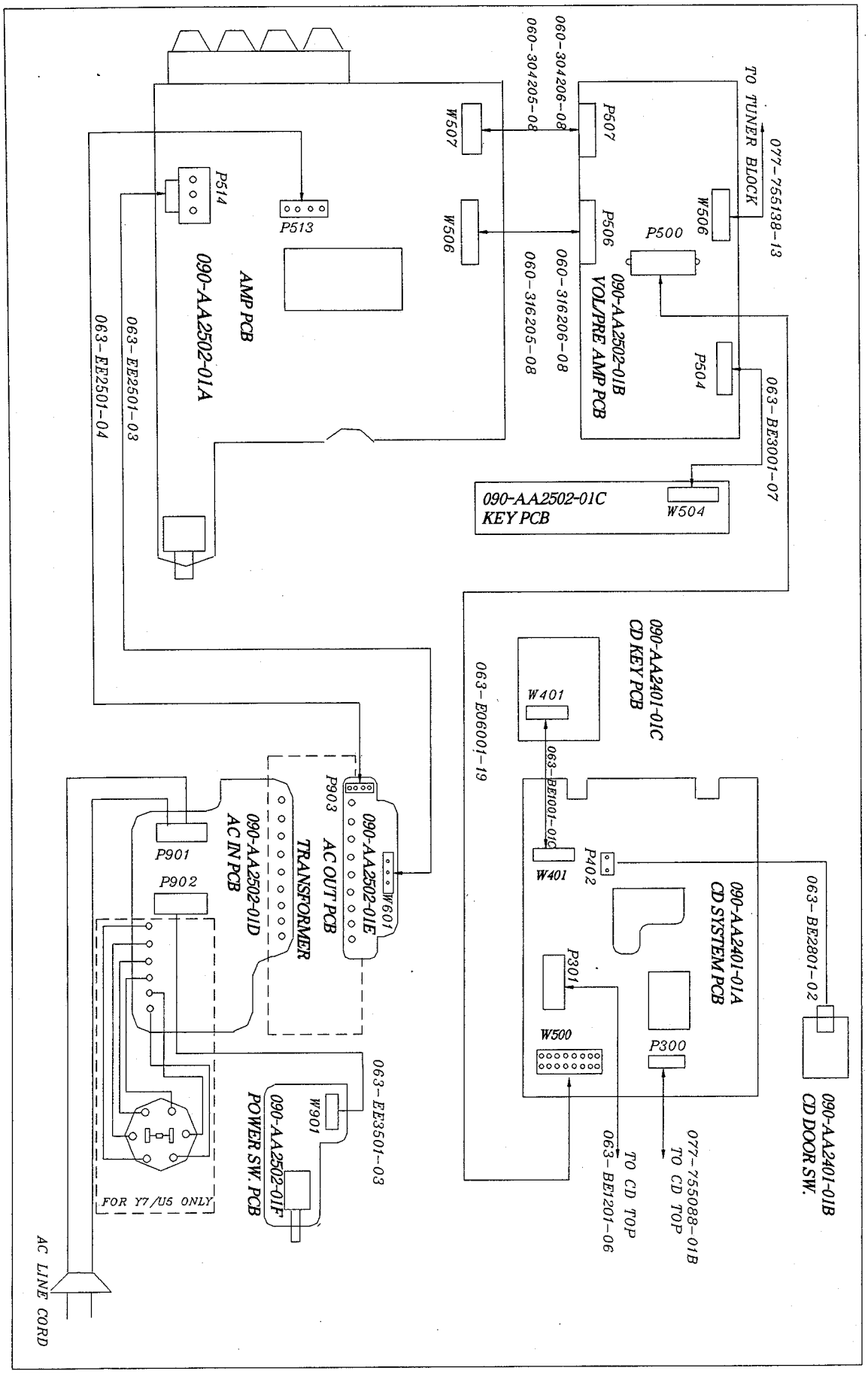


FIG.1

BLOCK DIAGRAM



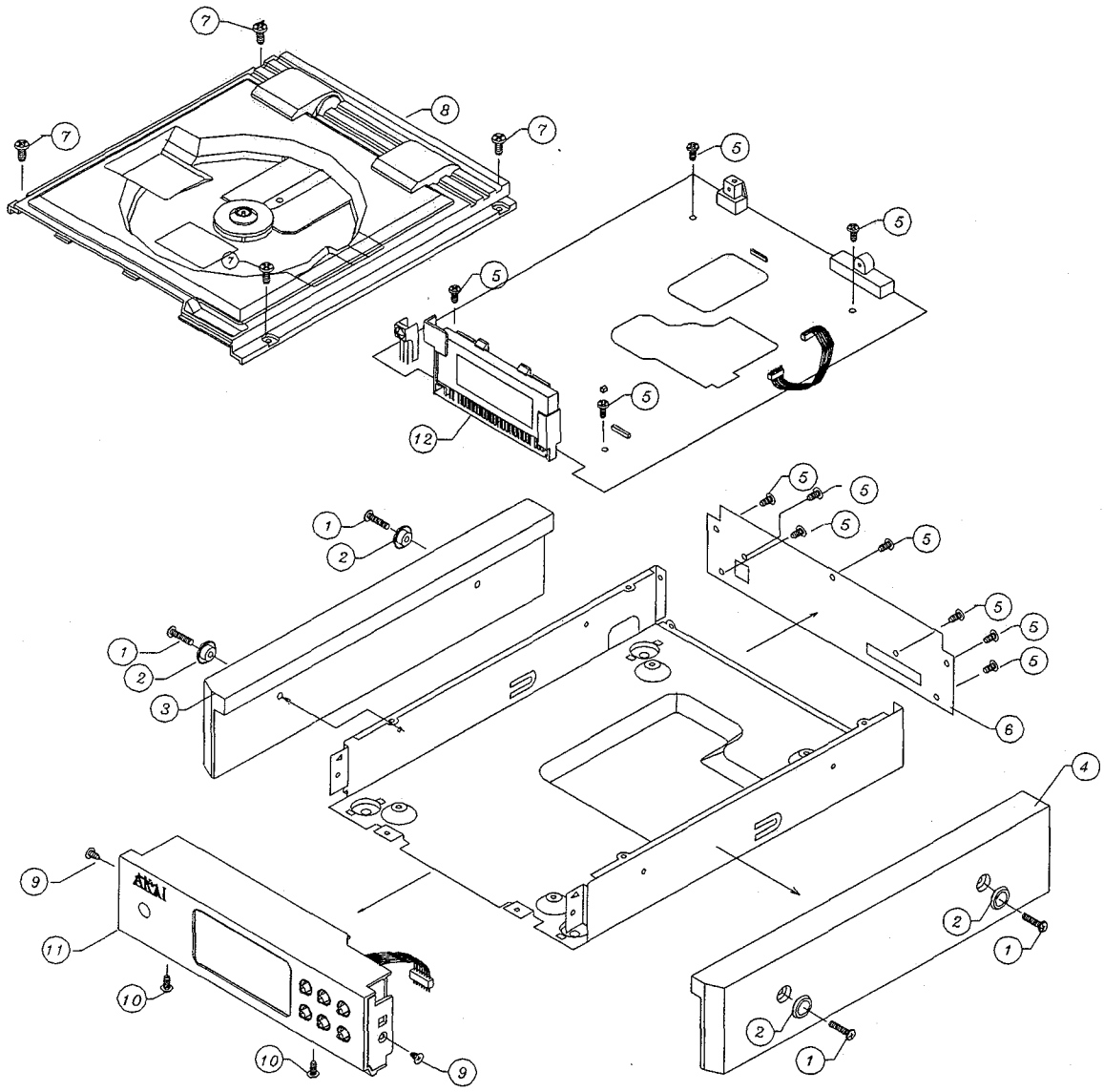
WIRING DIAGRAM



DISASSEMBLY

A. CD SECTION

In case of trouble,etc.,necessitating,please dismantle in the order shown in the illustrations.
Ressemble in the reverseorder.

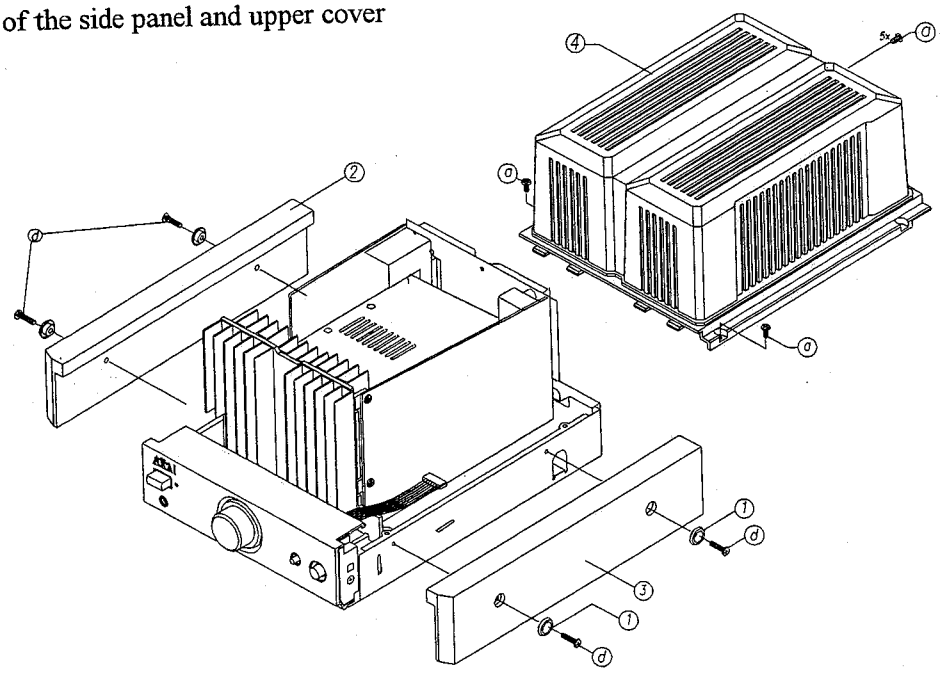


Procedure of disassembly

Ref. No.	Description	Qty.	Work	Mark	Note
1	Self-tapping Screw 3×16	4	Loosen Screw		
2	Washer	4	Remove		
3	Left Wood	1	Remove		
4	Right Wood	1	Remove		
5	Self-Tapping Screw 3×6	11	Loosen Screw		
6	Rear Panel	1	Remove		Loosen 7 screws and remove rear panel from bottom chassis
7	Self-tapping Screw3×8	4	Loosen Screw		
8	Top Cabinet Block	1	Remove		
9	Self-tapping Screw3×6	2	Loosen Screw		
10	Self-tapping Screw 3×8	2	Loosen Screw		
11	Front Panel Block	1	Remove		
12	Main PCB Ass'y	1	Remove		

B. AMPLIFIER SECTION

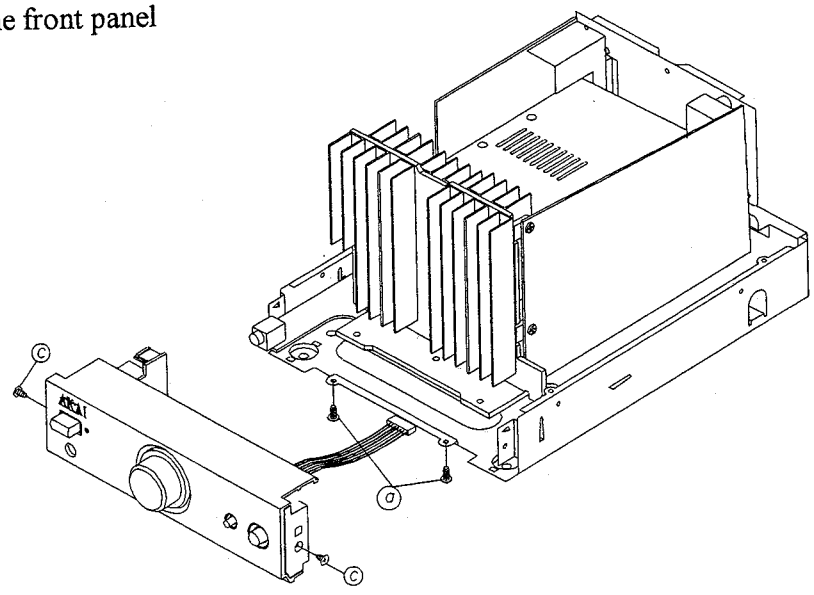
1. Removal of the side panel and upper cover



Procedure of disassembly

Ref. No.	Description	Qty.	Work	Mark	Note
d	Self-tapping Screw3×16	4	Loosen Screw		
1	Side Washer	4	Remove		
2	Left Side Wood	1	Remove		
3	Right Side Wood	1	Remove		
a	Self-tapping Screw3×8	7	Loosen Screw		
4	Top Cabinet	1	Remove		

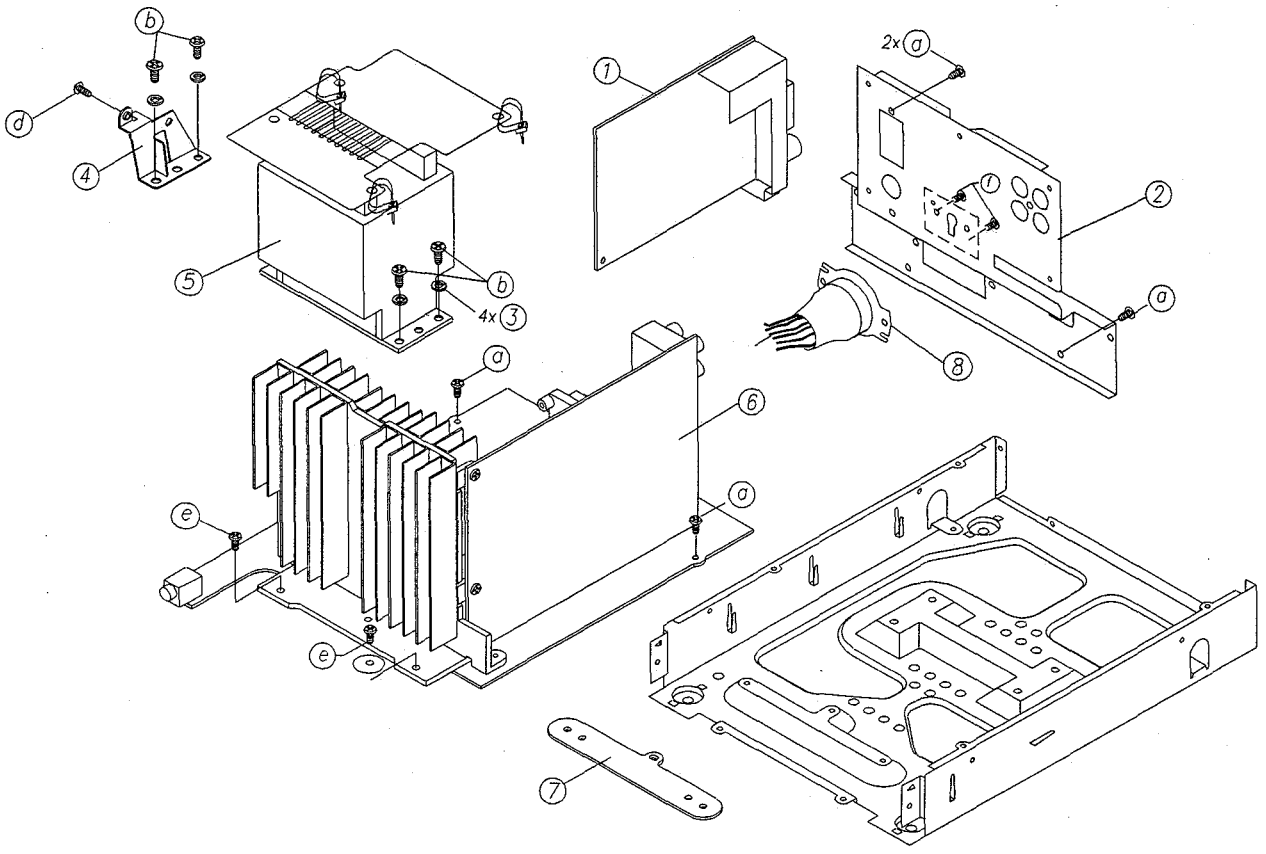
2. Removal of the front panel



Proceure of disassembly

Ref. No.	Description	Qty.	Work	Mark	Note
c	Self-tapping Screw3×6	2	Loosen Screw		Separate front block
a	Self-tapping Screw3×8	2	Loosen Screw		Separate back block

3. Removal of heatsink part



Procedure of disassembly

Ref. No.	Description	Qty.	Work	Mark	Note
a	Self-tapping Screw3×8	2	Loosen Screw		For tuner PCB
d	Machine Screw 3×8	1	Loosen Screw		For tuner PCB
1	Tuner PCB	1	Remove		
a	Self-tapping Screw3×8	7	Loosen Screw		
2	Rear Panel	1	Remove		
b	Machine Screw 4×8	4	Loosen Screw		
3	Speaker Washer	4	Remove		
4	Tuner Bracket	1	Remove		
5	Transformer Ass'y	1	Remove		
a	Self-tapping Screw3×8	2	Loosen Screw		
e	Self-tapping Screw3×10	2	Loosen Screw		
6	PCB & Heatsink Ass'y	1	Remove		
7	Fibber Paper	1	Remove		
f	Self-tapping Screw3×8	2	Loosen Screw		Only for version(u5,y7)
8	Switch Selector	1	Remove		Only for version(u5,y7)

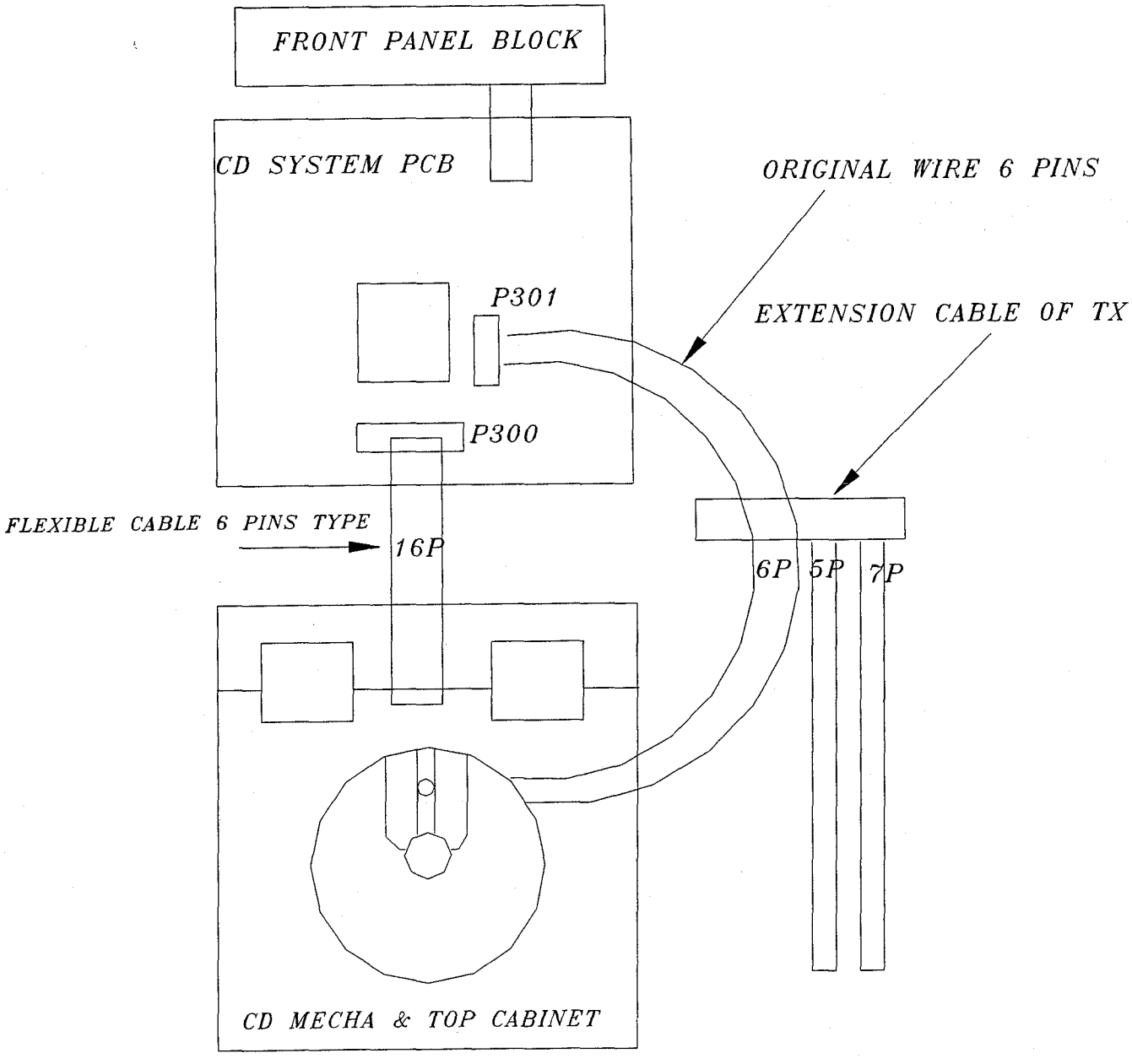
C. HOW TO CONNECT FOR EXTENSIONABLE OF CD PART

In case that it's necessary to check the CD SYSTEM P.C.B and CD mecha block, first dismantle the CD unit according to the disassembly of CD section.

Next , connect extension cables used on Audio Mini stereo component system TX series (e.g. AC-410, AC-510 and AC-610) between CD SYSTEM P.C.B and CD mecha block as shown below.

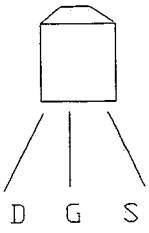
1. After removing of original flexible cable (16 pins) from pick-up block ,Connect the flexible cable (16 pins type) between P300 (16 pins) on CD SYSTEM PCB and Pick-up block as shown in the illustration.
2. Connect the 6 pins extension cable on pick-up block and connect the original 6 pins wire (P301) to 6 pins socket on extension cable as shown in the illustration.

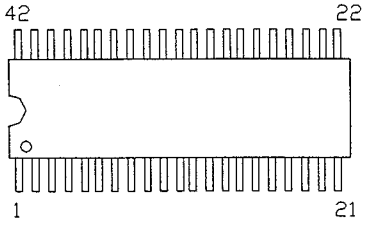
Set the top cabinet block and CD system PCB with front panel block so that the CD pick-up block does not touch on metal chassis.



TRANSISTOR AND IC IDENTIFICATION

2SK246





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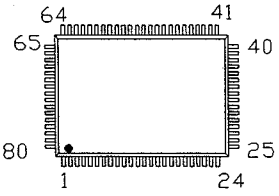
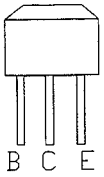
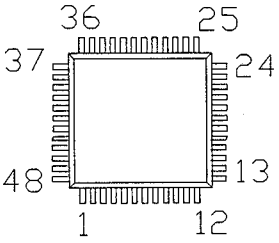
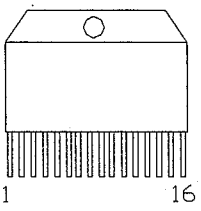


CDX2508AD

2SB1443

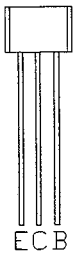


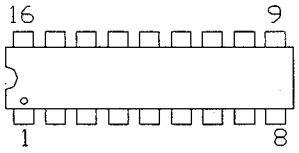




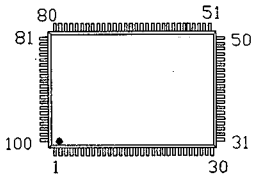
LM1876TF

SS8050
2SC2458
DTA114ES
DTC114TS
DTC144ES



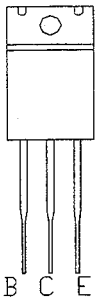


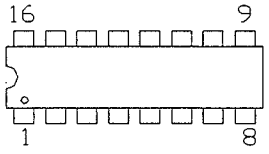
LC7073M



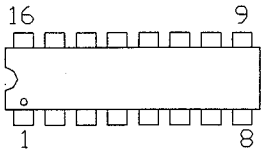
M38197MAA

B1375
2SD2012
2SB1257
2SD1796





TC9260P



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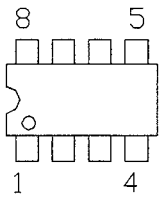

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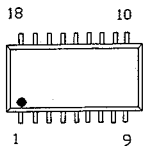

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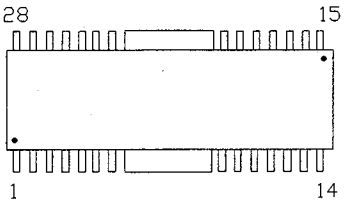

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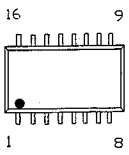

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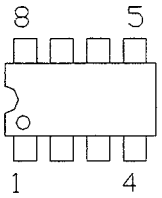


XL24LC01AP

VOLTAGE TABLE FOR IC

IC 602 LM 1876

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
VOLTAGE	-0.003	26.2	0.003	-26.1	0	0	0.001	0.004	0	0	0	0	0.001	0	26.3

IC601 BA4558

PIN NO.	1	2	3	4	5	6	7	8							
VOLTAGE	0.003	0.003	0.002	-7.8	0.002	0.002	0.002	7.7							

IC604 TC9260CP

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	15	16
VOLTAGE	-8	0.002	0.003	0.002	0.002	0.002	0.001	-5.7	-0.7	-5.7	0.002	0.002	0.002	0	7.9

IC 502 NJM4558

PIN NO.	1	2	3	4	5	6	7	8							
VOLTAGE	0.006	0.003	0.003	-7.7	0.003	0.006	0.003	7.7							

IC 505 MC14052BP CD

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
VOLTAGE	0.002	0.002	0.001	0	0	0	0	0	5.2	5.2	0.003	0	0.003	0.02	0
PIN NO.	16	9	10	9	10										
VOLTAGE	7.9	0.002	5.2	5.2	0.01										

TUNER LINE

IC 501 MPD750004CU

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
VOLTAGE	0.002	5.2	5.2	2.3	2.4	0.003	0.003	5.2	0.003	0.003	0.003	5.2	0.003	5.2	0
PIN NO.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
VOLTAGE	5.2	5.2	0.005	0.003	5.2	5.2	5.2	5.2	5.2	0	0.004	5.2	5.2	5.2	5.2
PIN NO.	31	32	33	34	35	36	37	38	39	40	41	42			
VOLTAGE	0.002	5.2	0.002	0	5.2	0	5.2	3.7	5.2	5.2	0	0			

IC506 SAA6579FT

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
VOLTAGE	0.8	2.3	2.6	2.5	5.2	0	2.58	2.6	0	0	0	5.2	2.2	2.6	2.5
PIN NO.	16														
VOLTAGE	2.6														

IC507 LC7073M

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
VOLTAGE	2.1	0	0	5.2	2.6	2.3	5.2	0	5.2	0.04	0	0.05	0.06	5.2	5.2
PIN NO.	16	17	18												
VOLTAGE	5.2	0	2.2												

IC301 BA6398FP

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
VOLTAGE	3.6	3.6	2.2	0	7.2	4.6	4.6	0	0	2.2	2	3.3	3.8	0	2
PIN NO.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
VOLTAGE	2.2	2.2	3.6	3.6	2.1	2.1	8.	0	8	2.2	2.2	2	3.2	3.8	0

IC303 4558

PIN NO.	1	2	3	4	5	6	7	8							
VOLTAGE	5.6	4.3	4	0	3.8	4.4	5.5	10							

IC400 M38197MAA

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
VOLTAGE	0	0	0.03	0.2	0	0	0	0	0	5.2	0	0	0	0	5.2
PIN NO.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
VOLTAGE	4.8	3.5	0	0	5.1	3	4.9	5.2	0	5.2	0	5.2	5.2	4.5	5.2
PIN NO.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
VOLTAGE	0	5.1	0	0.8	5.1	0	0	2.1	2.5	0	0.03	0.03	0	0	0
PIN NO.	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
VOLTAGE	0	0	0	0	0	0	0	0	0	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
PIN NO.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
VOLTAGE	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
PIN NO.	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
VOLTAGE	-0.02	-0.02	-0.02	-0.02	-0.02	5.2	0	0	0	0	0	0	0	0	0
PIN NO.	91	92	93	94	95	96	97	98	99	100					
VOLTAGE	0							-29.8	0	5.2					

IC 320 CXD2508AD

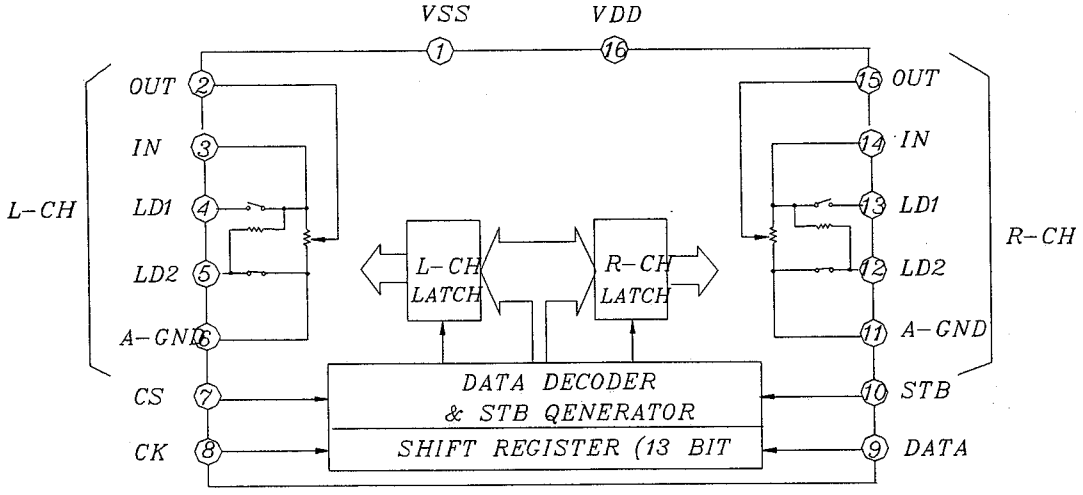
PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
VOLTAGE	0.09	0.11	5.0	0.1	5.1	0	4.5	5.2	3.5	5.2	4.8	0	4.3	0.09	3.4
PIN NO.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
VOLTAGE	5.0	4.6	5.0	5.0	5.0	0	4.9	5.0	5.0	0	0	5.0	0.03	2.1	2.5
PIN NO.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
VOLTAGE	2.5	5.0	0.03	2.1	5.0	2.5	0.9	2.5	2.5	5.0	2.5	2.5	2.5	2.5	2.5
PIN NO.	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
VOLTAGE	2.5	2.5	0	4.7	2	4.5	2.1	0	0	4.7	4	0	0.8	0	2
PIN NO.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
VOLTAGE	2	0	0	2	0	0	0	4.6	2.1	2.1	4.6	4.6	0.6	2.1	0
PIN NO.	76	77	78	79	80										
VOLTAGE	0	2	2	0	0										

IC300 CXA1782A

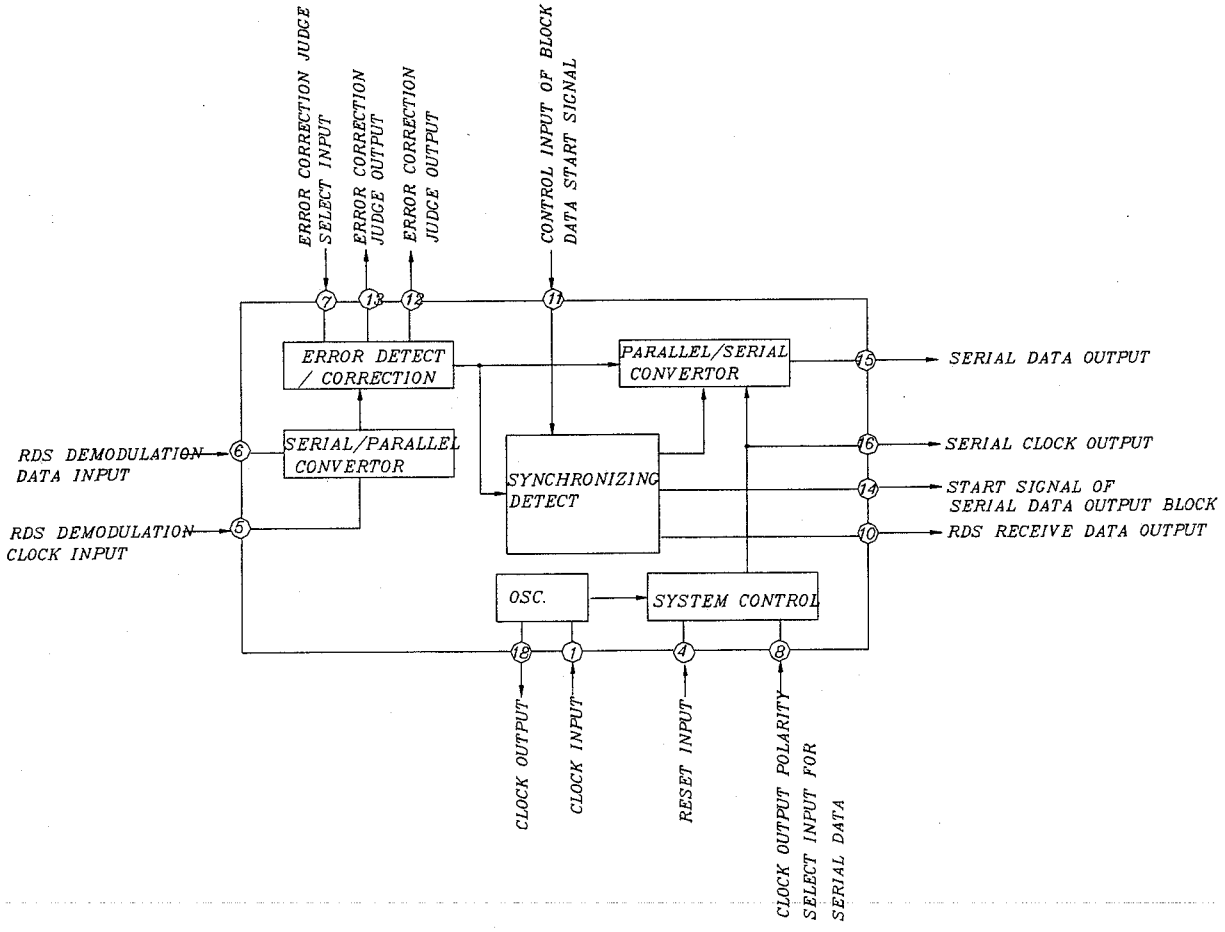
PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
VOLTAGE	2	2.1	1.3	1.8	2.2	2	2.30	1.8	2	1.8	0.6	2	2.3	2	2.1
PIN NO.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
VOLTAGE	2	1	4.8	4.7	0	0	5	0	4	4	0.3	0.3	1.2	2.2	2
PIN NO.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
VOLTAGE	3.2	2.3	2.8	0	2	2	2	2	1.8	0	0	0.9	2.2	1.5	1.5
PIN NO.	46	47	48												
VOLTAGE	1.4	1.4	2.3												

DESCRIPTION OF IC'S PINS

TC9260P



LC7073M



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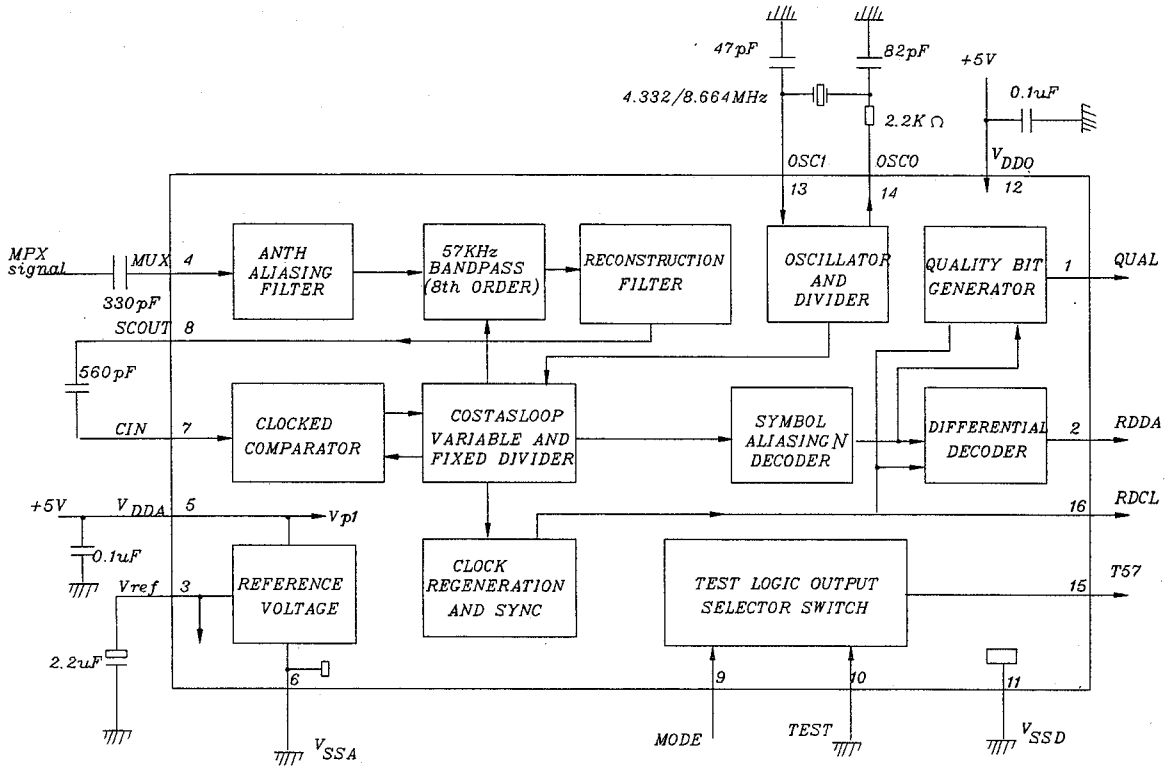
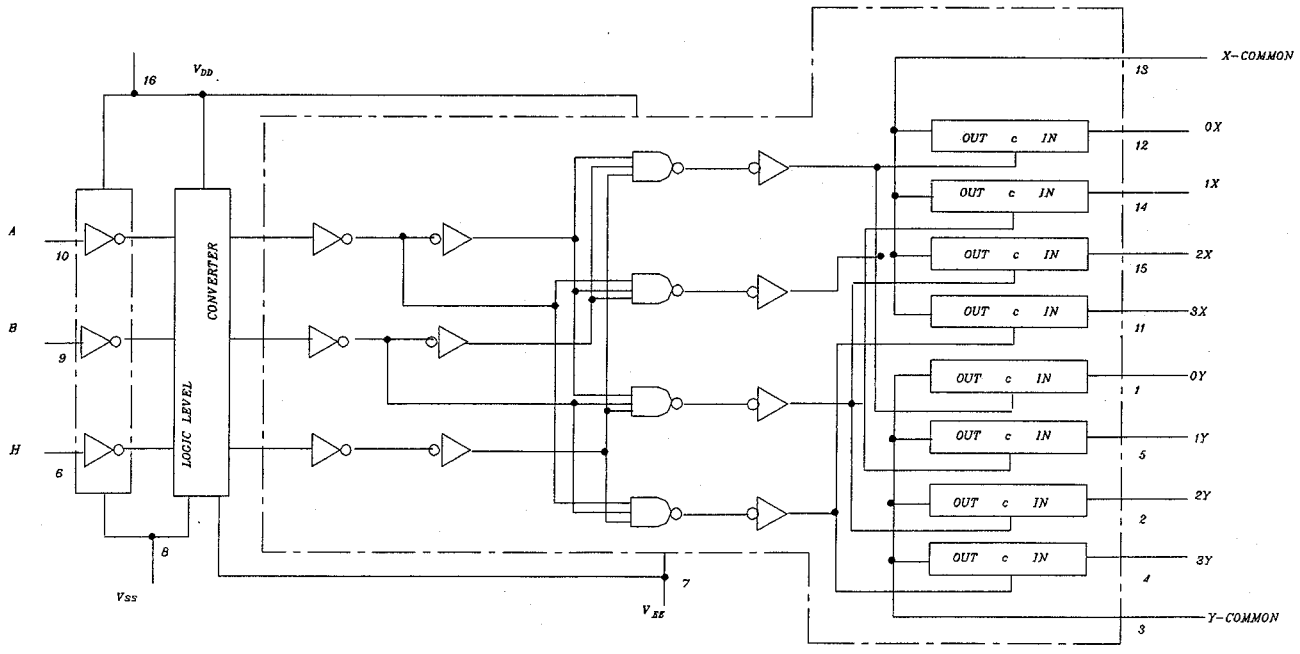


TC4052B



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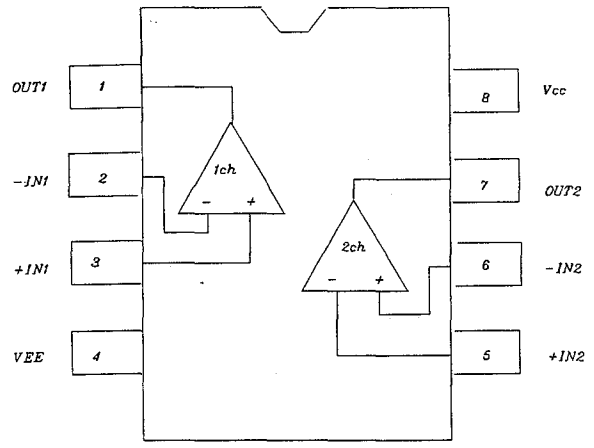
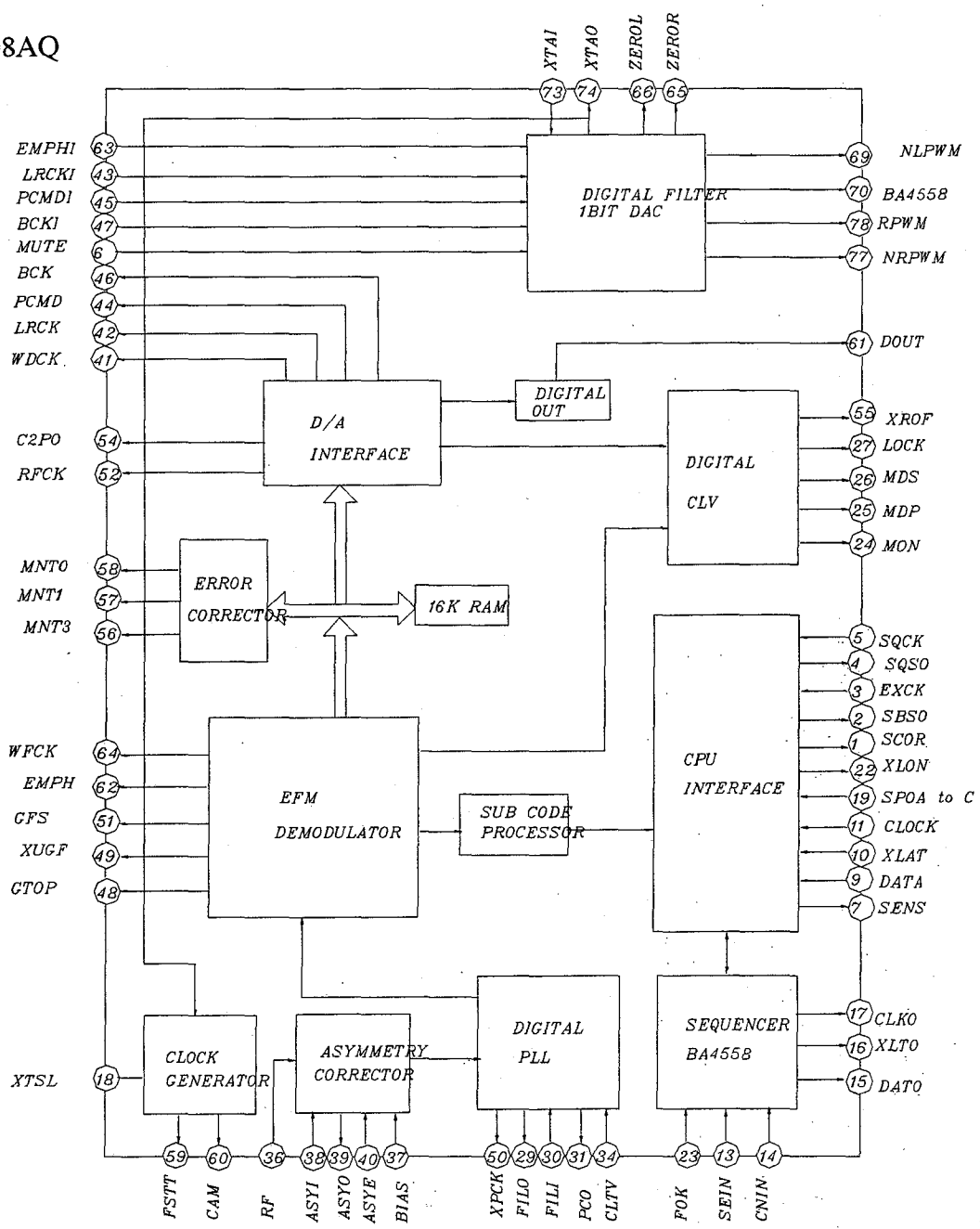


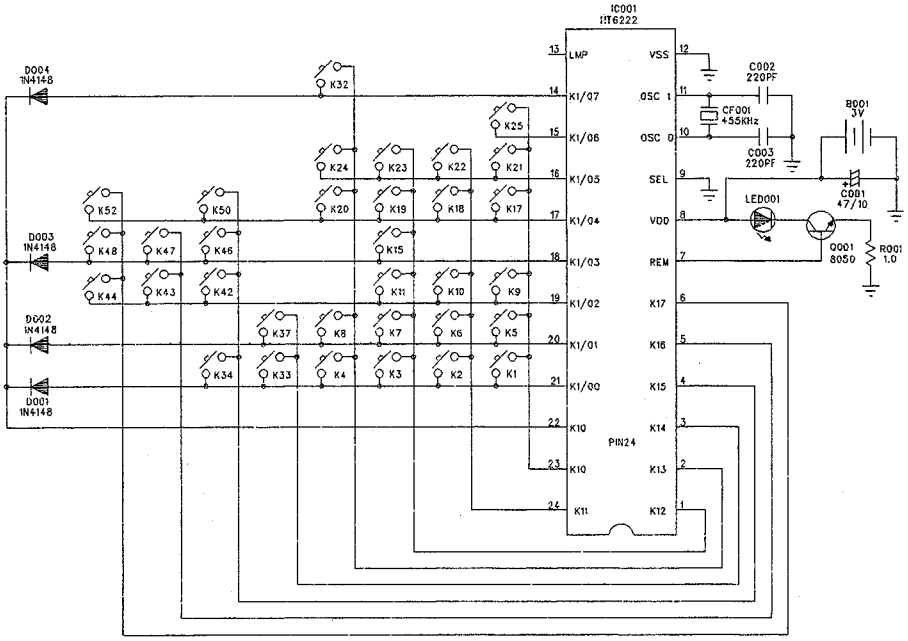
CXD2508AQ



CXA1782BQ

PIN NO	PORT NAME	I/O	FUNCTION
1	FEO	O	Focus drive output
2	FEI	I	Focus error signal input
3	FDFCT	I	Time constant capactitor connecting terminal at time of defect
4	FGD	I	Connet condenser for Focus servo gain control
5	FLB	I	Connet condenser for Focus servo correction
6	FE-O	O	Focus drive output
7	FE-M	I	FOCUS AMP Inverting input
8	SRCH	I	Connect condenser for Focus searchwave
9	TGU	I	Connect condenser for Tracking gain select
10	TG2	I	Connect condenser for Tracking gain select
11	FSET	I	Terminal for peak setting for Focus tracking phase compensation
12	TA-M	I	Tracking AMP Inverting input
13	TA-O	O	Tracking drive output
14	SL-P	I	Sled AMP non-inverting input
15	SL-M	I	Sled AMP inverting input
16	SL-O	O	Sled drive output
17	ISET	I	Focus search, Track jump and slide kick current input
18	Vcc	—	+5v
19	CLK	I	Clock signal input from the CD MI-COM
20	XLT	I	Lutch signal input from the CD MI-COM
21	DATA	I	Data signal input from the CD MI-COM
22	XRST	I	RESET input
23	C.OUT	O	Track count signal output
24	SENS	O	FZC,DFCT,TZC,GAIN and BAL output
25	FOK	O	Focus OK signal output
26	CC2	I	Input terminal of DEFECT bottom hold output which is supplied through capacitor
27	CC1	O	DEFECT bottom hold output terminal
28	CB	I	DEFECT bottom hold capacitor connecting terminal
29	CP	I	Terminal for connection of MIRR hold capacitor. (Non inverted input terminal of MIRR comparator
30	RF-I	I	Input terminal of RF summing AMP output which is supplied through a capcitor
31	RF-O	O	RF summing AMP output
32	RF-M	I	RF summing AMP inverted input terminal
33	LD	O	APC AMP output terminal
34	PHD	I	APC AMP input terminal
35	PHD1	I	RF I-V AMP inverted (for photo diode A+C of pick up)
36	PHD2	I	RF I-V AMP inverted (for photo diode B+D of pick up)
37	FE-BIAS	I	Terminal for bias adjustment of focus error amp.
38	F	I	RF I-V AMP inverted (for photo diode F of pick up)
39	E	I	RF I-V AMP inverted (for photo diode E of pick up)
40	EI	—	Not used
41	VEE	—	GND
42	TEO	O	Tracking error amp output terminal. (E-F signal output.)
43	LPF1	I	BAL adjustment of comperator input terminal.
44	TEI	I	Tracking error input terminal.
45	ATSC	I	Window comperator input terminal for ATSC detection.
46	TZC	I	Input terminal of tracking zoro cross comparator.
47	TDFCT	I	Time constant capactitor connecting terminal at time of defect
48	VC	O	(Vcc+VEE)/2 DC voltage output terminal

SCHEMATIC DIAGRAM FOR REMOTE HANDSET



REMOTE CONTROL IC CODE ASSIGNMENT

KEY NO	DATA CODE								KEY NAME	USE	KEY NO	DATA CODE								KEY NAME	USE
	D7	D6	D5	D4	D3	D2	D1	D0				D7	D6	D5	D4	D3	D2	D1	D0		
K1	1	0	0	0	0	0	0	0	Pro/Pro 1	O	K33	1	1	0	0	0	0	0	0	VOL. ∧	O
K2	1	0	0	0	0	0	0	1	Pro/Pro 2	O	K34	1	1	0	0	0	0	0	1	VOL. ∨	O
K3	1	0	0	0	0	0	1	0	Pro/Pro 3	O	K35	1	1	0	0	0	0	1	0	—	—
K4	1	0	0	0	0	0	1	1	Pro/Pro 4	O	K36	1	1	0	0	0	0	1	1	—	—
K5	1	0	0	0	0	0	1	0	Pro/Pro 5	O	K37	1	1	0	0	0	1	0	0	MUTE	O
K6	1	0	0	0	0	0	1	1	Pro/Pro 6	O	K38	1	1	0	0	0	1	0	1	—	—
K7	1	0	0	0	0	0	1	1	Pro/Pro 7	O	K39	1	1	0	0	0	1	1	0	—	—
K8	1	0	0	0	0	0	1	1	Pro/Pro 8	O	K40	1	1	0	0	0	1	1	1	—	—
K9	1	0	0	0	1	0	0	0	Pro/Pro 9	O	K41	1	1	0	0	1	0	0	0	—	—
K10	1	0	0	0	1	0	0	1	Pro/Pro +10	O	K42	1	1	0	0	1	0	0	1	CH MEMO	O
K11	1	0	0	0	1	0	1	0	Pro/Pro 0	O	K43	1	1	0	0	1	0	1	0	CD	O
K12	1	0	0	0	1	0	1	1	—	—	K44	1	1	0	0	1	0	1	1	INTRO/TP	O
K13	1	0	0	0	1	1	0	0	—	—	K45	1	1	0	0	1	1	0	0	—	—
K14	1	0	0	0	1	1	0	1	—	—	K46	1	1	0	0	1	1	0	1	DISPLAY/SELECT	O
K15	1	0	0	0	1	1	1	0	STAND-BY	O	K47	1	1	0	0	1	1	1	0	CLEAR	O
K16	1	0	0	0	1	1	1	1	—	—	K48	1	1	0	0	1	1	1	1	TUNER	O
K17	1	0	0	1	0	0	0	0	▶	O	K49	1	1	0	1	0	0	0	0	—	—
K18	1	0	0	1	0	0	0	1	▮▮	O	K50	1	1	0	1	0	0	0	1	BAL R	O
K19	1	0	0	1	0	0	1	0	■	O	K51	1	1	0	1	0	0	1	0	—	—
K20	1	0	0	1	0	0	1	1	▶▶/▶▶▮	O	K52	1	1	0	1	0	0	1	1	BAL L	O
K21	1	0	0	1	0	1	0	0	◀◀/◀◀	O	K53	1	1	0	1	0	1	0	0	—	—
K22	1	0	0	1	0	1	0	1	LOUDNESS	O	K54	1	1	0	1	0	1	0	1	—	—
K23	1	0	0	1	0	1	1	0	LINE	O	K55	1	1	0	1	0	1	1	0	—	—
K24	1	0	0	1	0	1	1	1	PROG/PTY	O	K56	1	1	0	1	0	1	1	1	—	—
K25	1	0	0	1	1	0	0	0	RANDOM/AF	O	K57	1	1	0	1	1	0	0	0	—	—
K26	1	0	0	1	1	0	0	1	—	—	K58	1	1	0	1	1	0	0	1	—	—
K27	1	0	0	1	1	0	1	0	—	—	K59	1	1	0	1	1	0	1	0	—	—
K28	1	0	0	1	1	0	1	1	—	—	K60	1	1	0	1	1	0	1	1	—	—
K29	1	0	0	1	1	1	0	0	—	—	K61	1	1	0	1	1	1	0	0	—	—
K30	1	0	0	1	1	1	0	1	—	—	K62	1	1	0	1	1	1	0	1	—	—
K31	1	0	0	1	1	1	1	0	—	—	K63	1	1	0	1	1	1	1	0	—	—
K32	1	0	0	1	1	1	1	1	REPEAT	O	K64	1	1	0	1	1	1	1	1	—	—

CUSTOM CODE : C7 C6 C5 C4 C3 C2 C1 C0
1 0 0 0 1 0 1 1

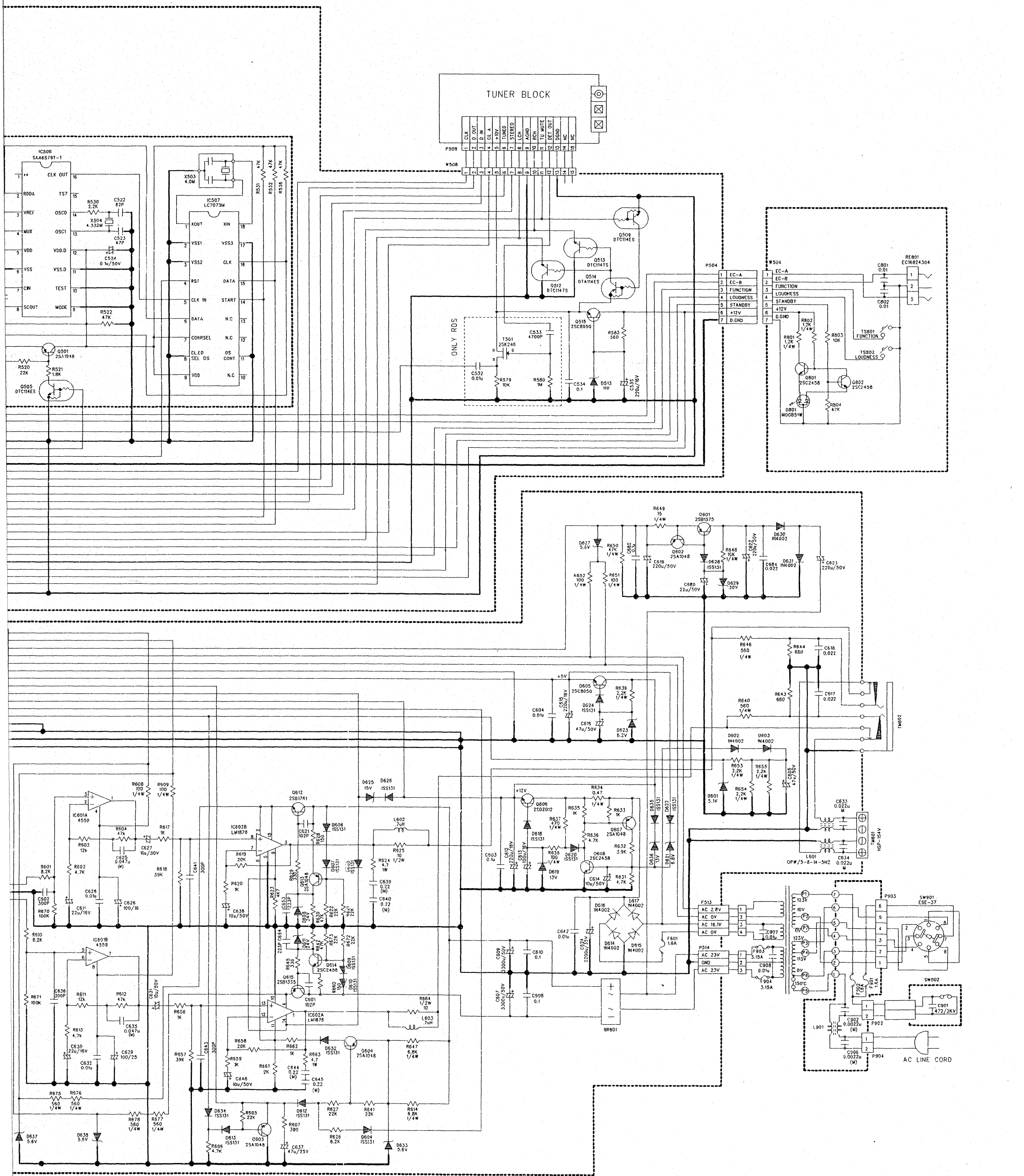
O :USE
— :NO USE

SCHEMATIC DIAGRAM FOR QZ-N1/N1R

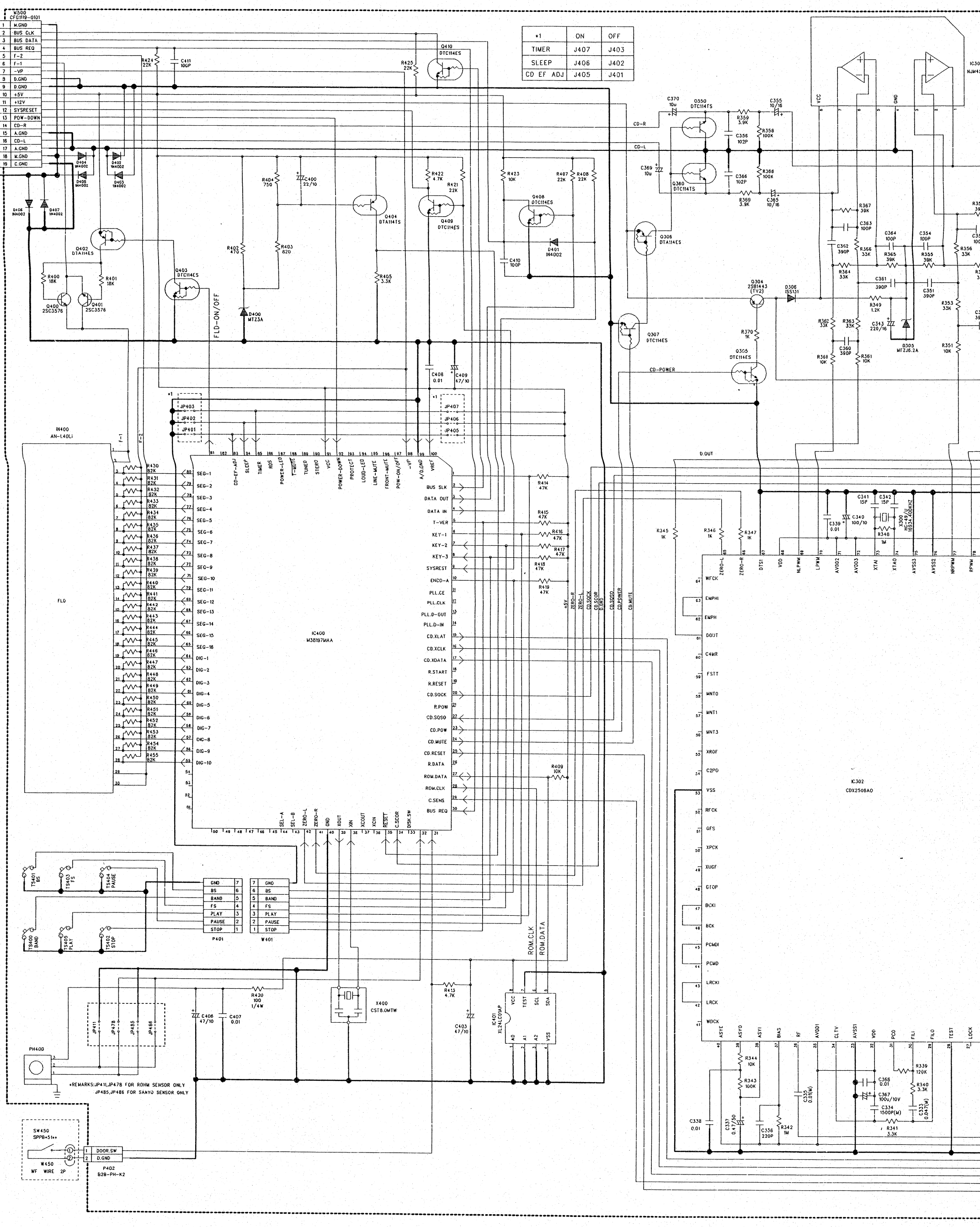
VERSION DETECTION TABLE:

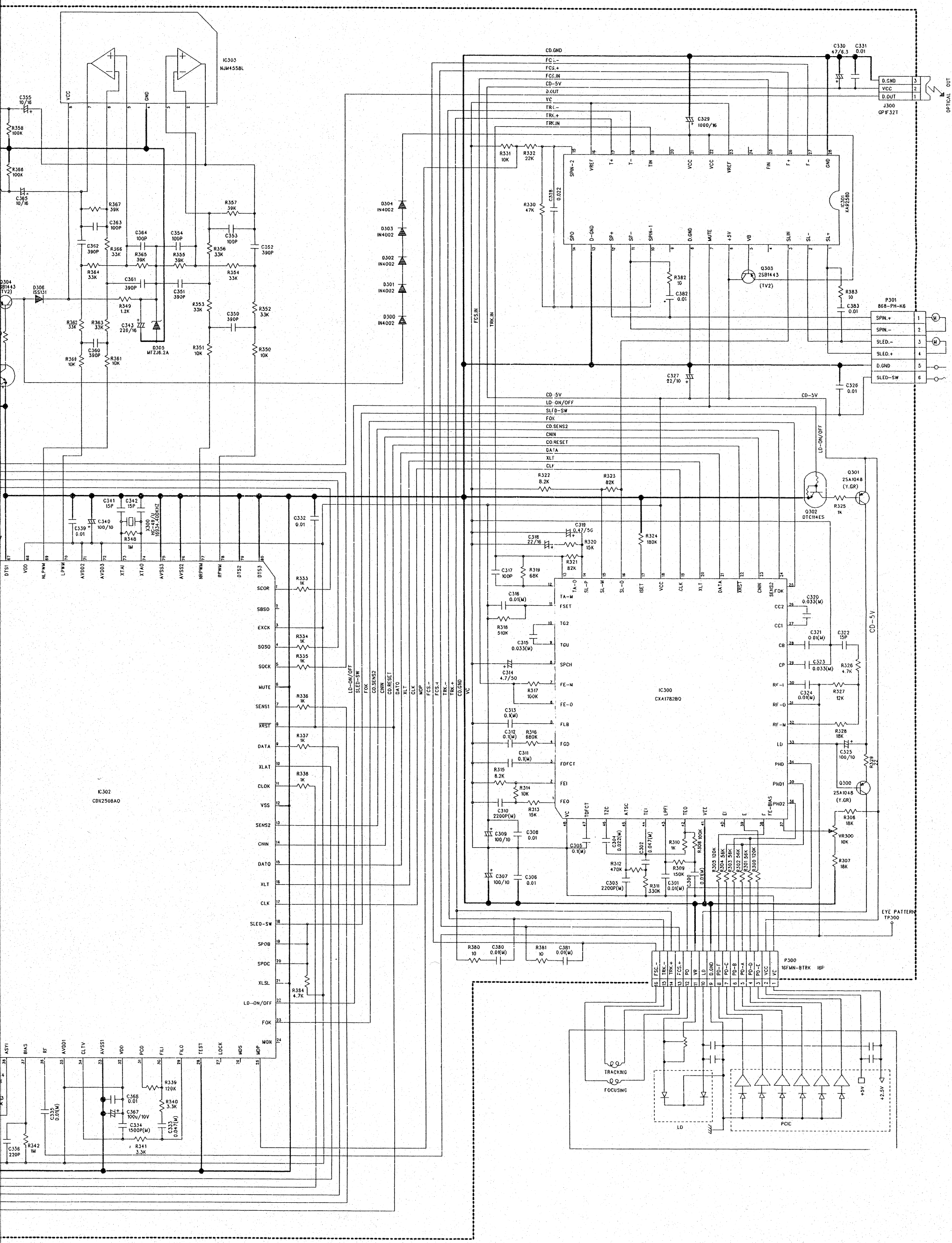
		QZ-NIR(E1) E1/B1 (RDS)	QZN1(E1) E1/E2/E3/B1	QZ-N1 S1/Y4/Y6	QZ-N1(U5) U5/Y2	Y7 (SW)	Y7	A (RDS)	A	J	J AM STEREO
V.CONTR	R501	--	--	--	○	○	--	○	--	--	○
	R502	○	○	○	--	--	○	--	○	○	--
R.ON-OFF	R503	○	--	○	○	--	○	○	--	○	--
	R504	--	○	--	--	○	--	--	○	--	○
R.RESET	R505	○	○	--	--	--	○	○	○	--	○
	R506	--	--	○	○	○	--	--	--	○	--
DATA	R507	○	○	○	○	--	--	--	--	--	--
	R508	--	--	--	--	○	○	○	○	○	○

ONLY RDS

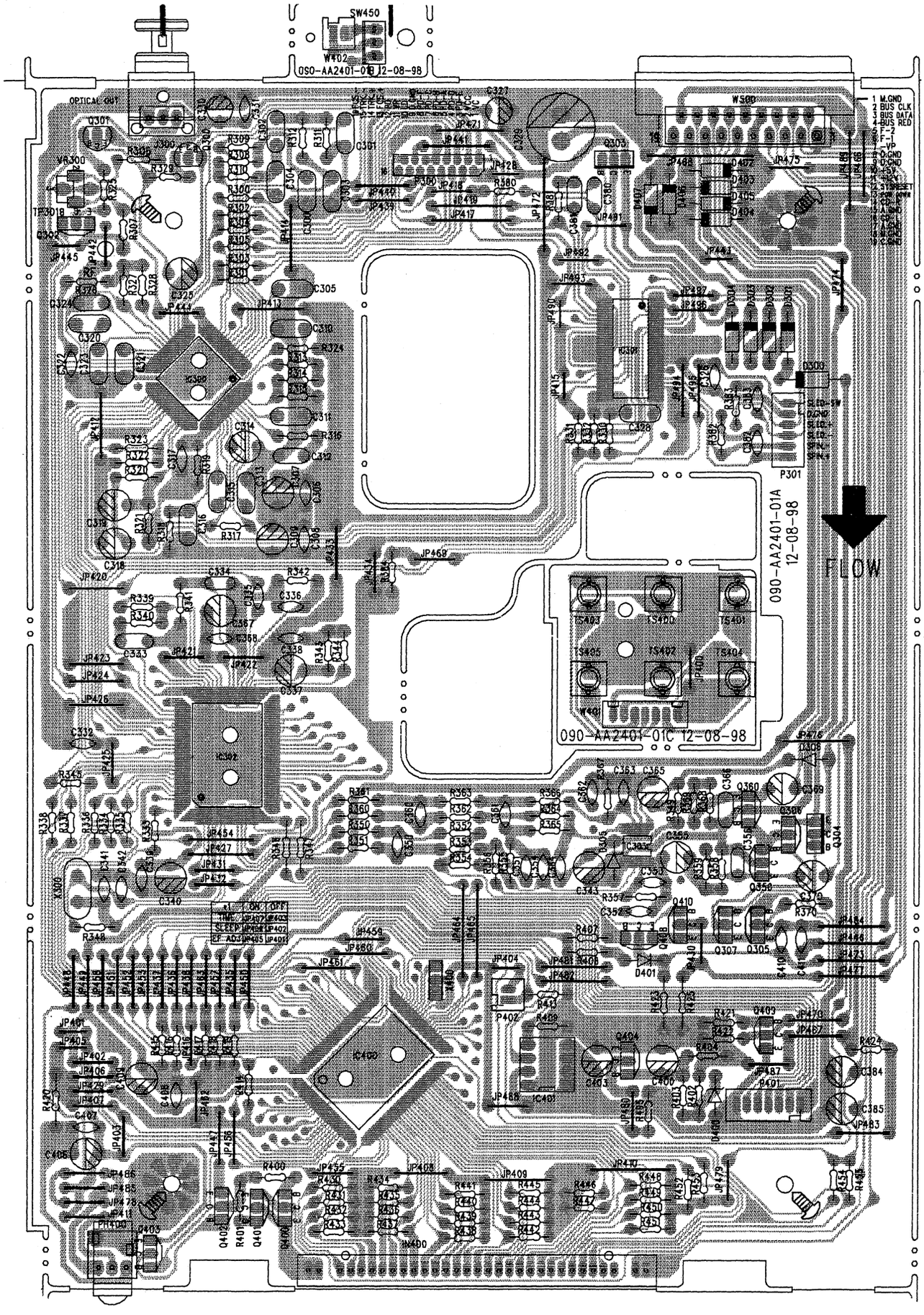

TUNER BLOCK
P508
W508
CLK
D OUT
D IN
CE A
+10V
TUNED
STEREO
LCH
AGND
RCH
TU MUTE
DET OUT
DGND
NC
NC
IC506
SAA6579T-T
CLK OUT
RDDA
TS7
VREF
OSCD
MUX
OSC1
VDD
VDD.D
VSS
VSS.D
CIN
TEST
SCOUT
MODE
X503
4.0M
IC507
LC7073M
XOUT
XIN
VSS1
VSS3
VSS2
CLK
RST
DATA
CLK IN
START
DATA
N.C
CORRSEL
N.C
CL.ED
SEL DS
DS
CONT
VDD
N.C
R530
2.2K
C522
82P
X504
4.332M
C523
47P
C524
0.1u/50V
R522
47K
R531
47K
R532
47K
R536
47K
Q501
2SA1048
R520
22K
R521
1.8K
Q505
DTC114ES
Q509
DTC114ES
Q513
DTC114TS
Q512
DTC114TS
Q514
DTA114ES
Q515
2SC8050
R583
560
C533
4700P
T501
2SK246
C532
0.01u
R579
10K
R580
1M
C534
0.1
D513
11V
C535
220u/16V
ONLY RDS
P504
EC-A
EC-B
FUNCTION
LOUDNESS
STANDBY
+12V
D.GND
W504
RE801
EC16824304
C801
0.01
C802
0.01
R802
1.2K
1/4W
R801
1.2K
1/4W
R803
10K
TS801
FUNCTION
TS802
LOUDNESS
Q801
2SC2458
Q802
2SC2458
D801
MOGB51W
R804
47K
R608
100
1/4W
R609
100
1/4W
IC601A
4558
R604
47k
R617
1K
R603
12k
C627
10u/50V
C625
0.047u
(M)
R601
8.2K
R602
4.7K
R618
39K
C641
300P
C628
0.01u
C611
22u/16V
C626
100/16
R670
100K
C502
300P
R610
8.2K
IC601B
4558
R671
100K
C636
300P
R611
12k
R612
47k
C635
0.047u
(M)
C630
22u/16V
C632
0.01u
C629
100/25
C631
10u/50V
R656
1K
R657
39K
C643
300P
R675
560
1/4W
R676
560
1/4W
R678
560
1/4W
R677
560
1/4W
D637
5.6V
D638
5.6V
Q612
2SD1761
C621
102P
R638
330
D606
ISS131
D607
ISS131
D605
ISS131
R619
20K
R620
1K
R623
4K7
Q613
2SA1048
C653
123P
D625
15V
D626
ISS131
L602
.7uH
R625
10
1/2W
R624
4.7
1W
C639
0.22
(M)
C640
0.22
(M)
R638
330
D610
ISS131
D611
ISS131
R630
47K
R622
22K
R621
22K
C654
221P
Q614
2SC2458
Q615
2SB1335
C601
102P
R645
330
R660
150
D609
ISS131
IC602A
LM1875
IC602B
LM1875
R664
1/2W
10
L603
.7uH
R658
20K
R662
1K
D632
ISS131
Q604
2SA1048
R647
6.8K
1/4W
R659
1K
R661
2K
C644
0.22
(M)
C645
0.22
(M)
C646
10u/50V
D634
ISS131
R605
22K
D612
ISS131
R627
22K
R641
22K
R614
6.8K
1/4W
D613
ISS131
Q603
2SA1048
R607
390
R626
8.2K
D604
ISS131
D633
5.6V
R606
4.7K
C637
47u/25V
R649
15
1/4W
Q601
2SB1375
D627
5.6V
R650
47K
1/4W
C685
5.6V
Q602
2SA1048
C619
220u/50V
D628
ISS131
C622
220u/50V
D630
IN4002
C684
0.022
D631
IN4002
C623
220u/50V
R652
100
1/4W
R651
100
1/4W
C620
22u/50V
D629
30V
R646
560
1/4W
R644
680
C618
0.022
R643
680
C617
0.022
R640
560
1/4W
TM602
D602
IN4002
D603
IN4002
R653
2.2K
1/4W
R655
2.2K
1/4W
R654
2.2K
1/4W
C605
47u/50V
D601
5.1V
+5V
Q605
2SC8050
R639
2.2K
1/4W
C615
220u/16V
D624
ISS131
C604
0.01u
C616
47u/50V
D623
6.2V
+12V
Q606
2SD2012
R634
0.47
1/4W
R635
1K
R633
1K
R637
470
1/4W
D618
ISS131
R636
4.7K
Q607
2SA1048
R638
100
1/4W
D620
ISS131
Q608
2SC2458
R632
3.9K
C603
0.1u
C612
220u/16V
C613
100u/16V
D619
13V
C614
10u/50V
R631
4.7K
D635
ISS131
D622
ISS131
D636
13V
D621
6.8V
C633
0.022u
M
C634
0.022u
M
L601
OPW/5-8-14-5H2
TM601
HSP-154V
D616
1N4002
D617
1N4002
D614
1N4002
D615
1N4002
C642
0.01u
C624
2200u/35V
F601
1.6A
C609
3300u/50V
C610
0.1
C607
3300u/50V
C608
0.1
BR601
F513
AC 2.8V
AC 0V
AC 16.1V
AC 0V
C907
0.01u
P514
AC 23V
GND
AC 23V
F903
3.15A
C908
0.01u
F904
3.15A
P903
SW901
ESE-37
SW902
C901
0.472/2KV
L901
C902
0.0022u
(M)
C906
0.0022u
(M)
P902
P904
AC LINE CORD

SCHEMATIC DIAGRAM FOR QZ-N1/N1R

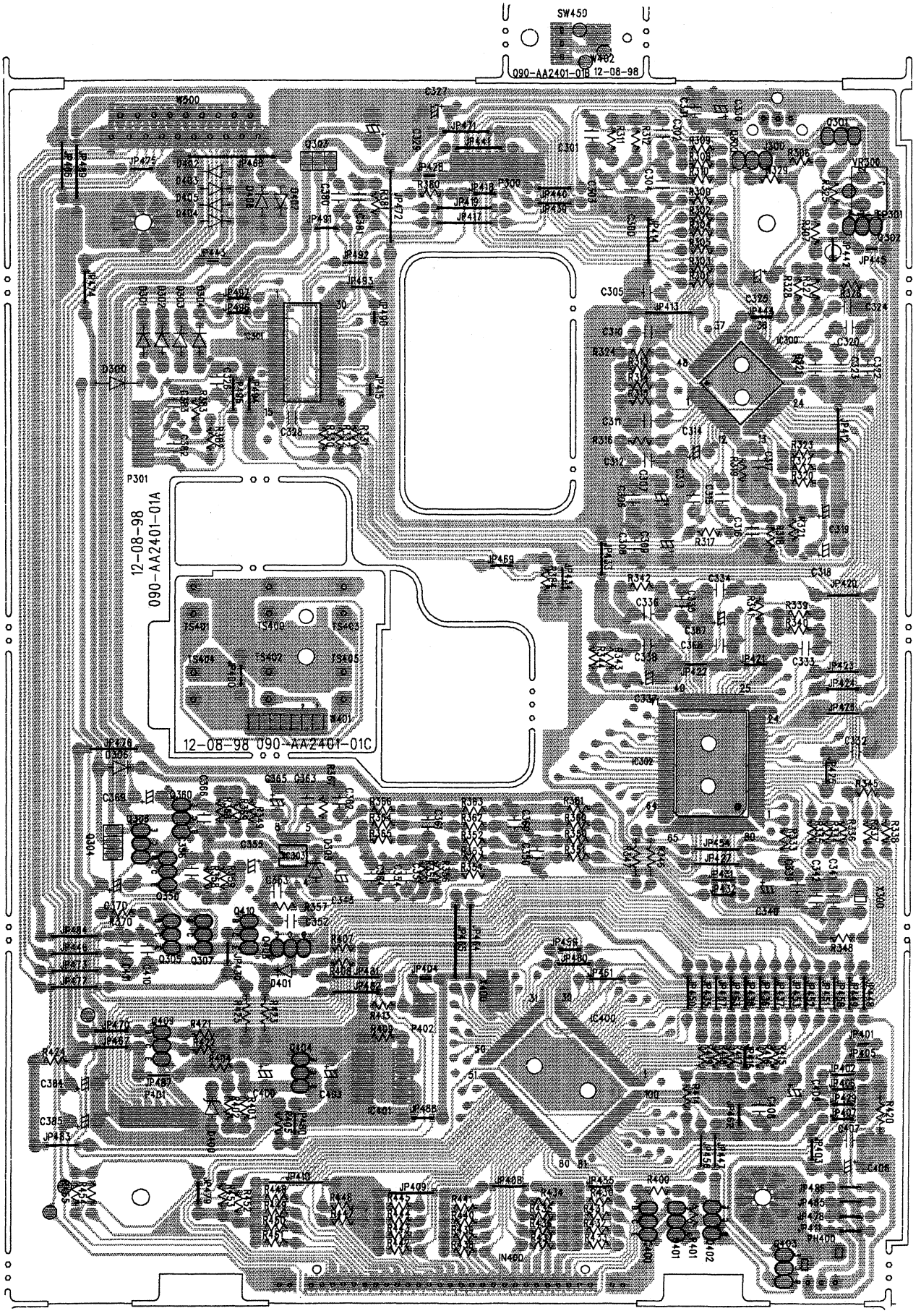



IC303
NJM4558L
VCC
GND
C355 10/16
R358 100K
R368 100K
C365 10/16
R367 39K
C363 100P
C362 390P
R366 33K
C364 100P
R365 39K
C354 100P
R355 39K
R357 39K
C353 100P
R356 33K
C352 390P
R364 33K
R354 33K
C361 390P
C351 390P
R349 1.2K
R353 33K
R352 33K
C350 390P
R362 33K
R363 33K
C343 220/16
D305 MTZJ6.2A
R351 10K
R350 10K
C360 390P
R360 10K
R361 10K
D304 SB1443 (TV2)
D308 1SS131
C339 0.01
C340 100/10
C341 15P
C342 15P
X300 HC-49/U 16934-400KHZ
R348 1M
C332 0.01
DTS1
VDD
NLPWM
LPWM
AVDD2
AVDD3
XTAI
XTAO
AVSS3
AVSS2
NRPWM
RPWM
DTS2
DTS3
IC302
CDX2508AQ
SCOR
SBSO
EXCK
SQSO
SOCK
MUTE
SENS1
XRST
DATA
XLAT
CLOK
VSS
SENS2
CNIN
DATO
XLT
CLK
SLED-SW
SPOB
SPOC
XLSL
LD-ON/OFF
FOK
MON
R333 1K
R334 1K
R335 1K
R336 1K
R337 1K
R338 1K
R384 4.7K
ASYI
BIAS
RF
AVDD1
CLTV
AVSS1
VDD
PCO
FILI
FILO
TEST
LOCK
MDS
MDP
R339 120K
R340 3.3K
C368 0.01
C367 100V/10V
C334 1500P(M)
C333 0.047(M)
R341 3.3K
C335 0.01(M)
C336 220P
R342 1M
CD.GND
FCS.-
FCS.+
FCS.IN
CD-5V
D.OUT
VC
TRK.-
TRK.+
TRK.IN
C330 47/6.3
C331 0.01
D.GND
VCC
D.OUT
J300
GP1F32T
OPTICAL OUT
C329 1000/16
R331 10K
R332 22K
C328 0.022
R330 47K
D304 IN4002
D303 IN4002
D302 IN4002
D301 IN4002
D300 IN4002
SPIN-2
VREF
T+
T-
TIN
VCC
VCC
VREF
FIN
F+
F-
GND
IC301
KA9258D
SPO
D-GND
SP+
SF-
SPIN-1
D.GND
MUTE
+5V
VB
SLIN
SL-
SL+
R382 10
C382 0.01
Q303 2SB1443 (TV2)
R383 10
C383 0.01
P301
868-PH-K6
SPIN.+
SPIN.-
SLED.-
SLED.+
D.GND
SLED-SW
C327 22/10
C326 0.01
CD-5V
LD-ON/OFF
SLED-SW
FOK
CD.SENS2
CNIN
CD.RESET
DATA
XLT
CLK
R322 8.2K
R323 82K
Q301 2SA1048 (Y.GR)
Q302 DTC114ES
R325 1k
C319 0.47/50
C318 22/16
R320 15K
R324 180K
C317 100P
R319 68K
R321 82K
C316 0.01(M)
R318 510K
C315 0.033(M)
C314 4.7/50
R317 100K
C313 0.1(M)
C312 0.1(M)
R316 680K
C311 0.1(M)
R315 8.2K
R314 10K
C310 2200P(M)
R313 15K
C309 100/10
C308 0.01
C307 100/10
C306 0.01
C305 0.1(M)
C304 0.022(M)
C302 0.047(M)
R310 1K
R308 100K
R312 47K
C303 2200P(M)
R309 150K
C301 0.01(M)
R311 330K
C300 0.01(M)
R305 120K
R304 56K
R303 56K
R302 56K
R301 56K
R300 120K
IC300
CXA1782BQ
SL-P
SL-M
SL-O
ISET
VCC
CLK
XLT
DATA
XRST
CNIN
SENS2
FOK
TA-O
TA-M
FSET
TG2
TGU
SPCH
FE-M
FE-O
FLB
FGD
FDFCT
FEI
FEO
VC
TDFCT
TZC
ATSC
TEI
LPFI
TEO
VEE
EI
E
F
FE-BIAS
C320 0.033(M)
CC2
CC1
C321 0.01(M)
C322 15P
CB
CP
C323 0.033(M)
R326 4.7K
RF-I
C324 0.01(M)
R327 12K
RF-O
RF-M
R328 18K
LD
C325 100/10
R329 22
PHD
PHD1
PHD2
Q300 2SA1048 (Y.GR)
R306 18K
VR300 10K
R307 18K
CD-5V
EYE PATTERN TP300
R380 10
C380 0.01(M)
R381 10
C381 0.01(M)
P300
16FMN-BTRK 16P
FSL.-
TRK.-
TRK.+
FCS.+
PD
VR
LD
D.GND
PD-F
PD-C
PD-B
PD-A
PD-D
PD-E
VCC
VC
TRACKING
FOCUSING
LD
PCIC
+5V
+2.5V

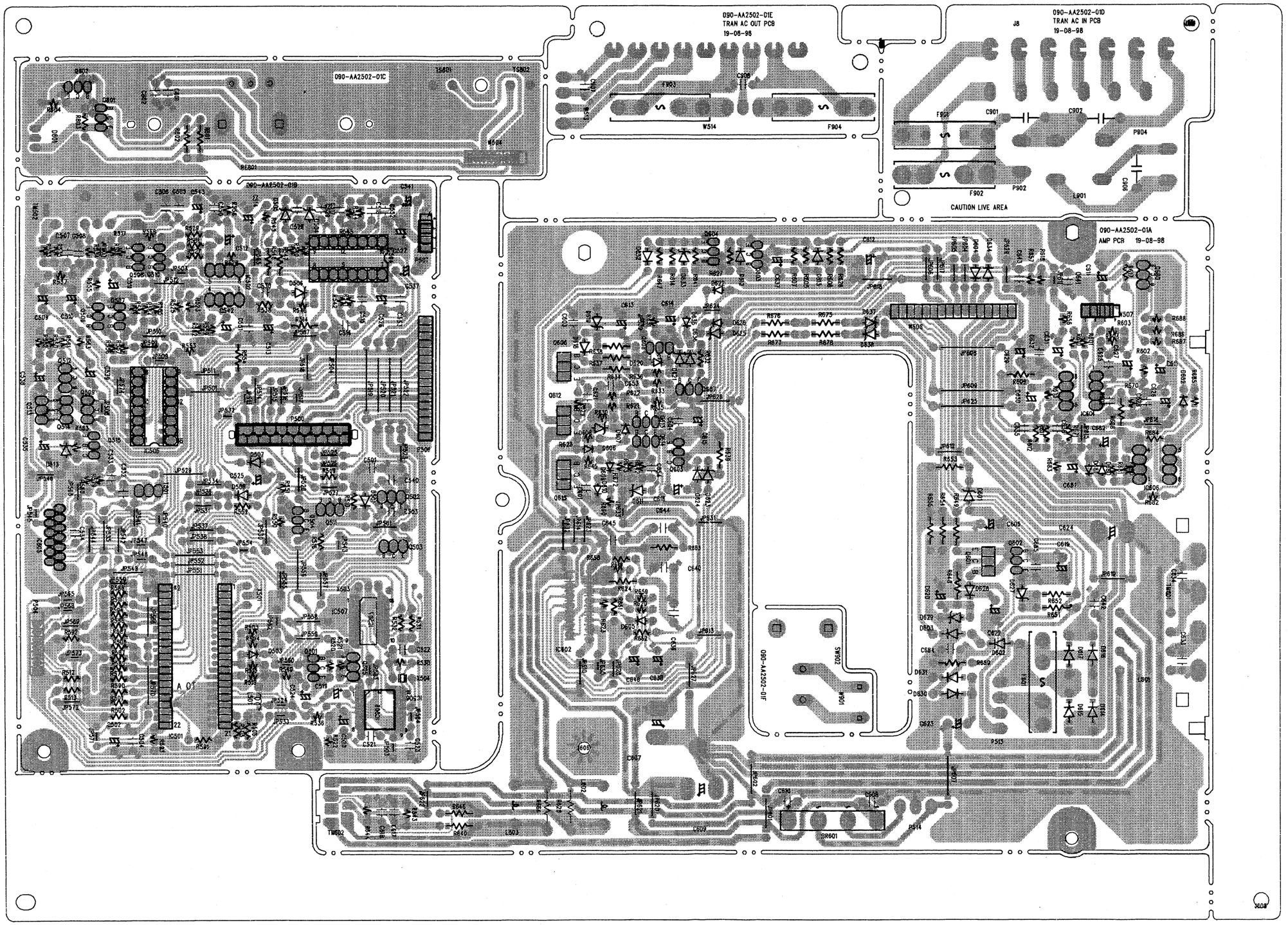
COMPONENT DIAGRAM FOR CD SECTION(TOP VIEW)



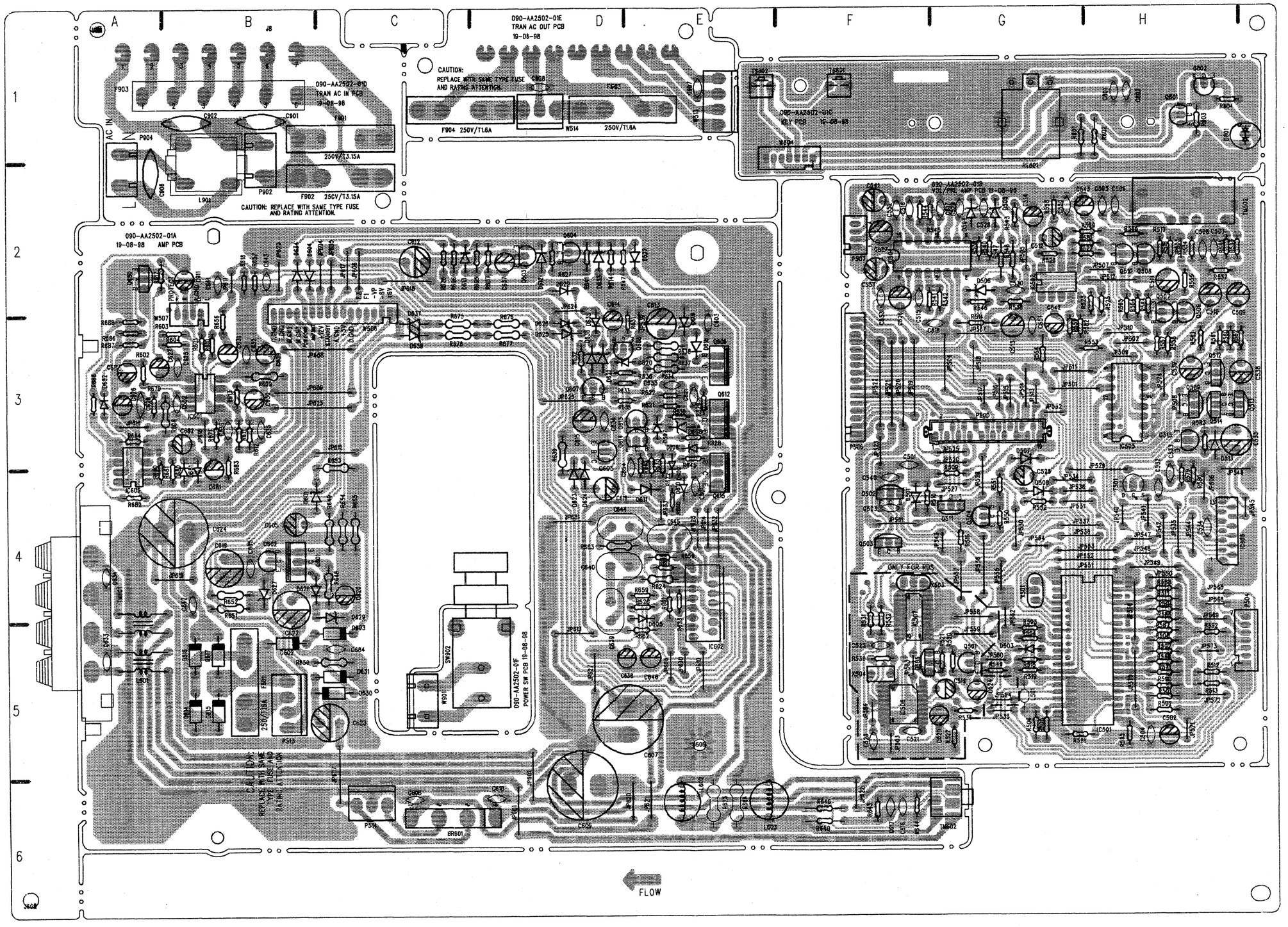
COMPONENT DIAGRAM FOR CD SECTION(BOTTOM VIEW)



COMPONENT DIAGRAM FOR AMPLIFIER SECTION(BOTTOM VIEW)

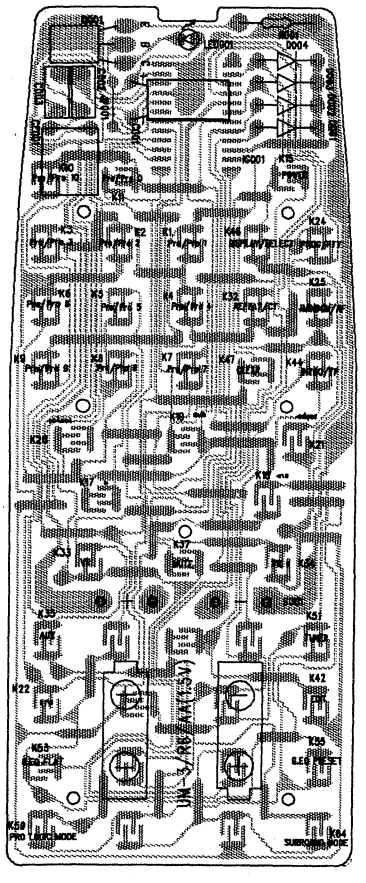


COMPONENT DIAGRAM FOR AMPLIFIER SECTION(TOP VIEW)

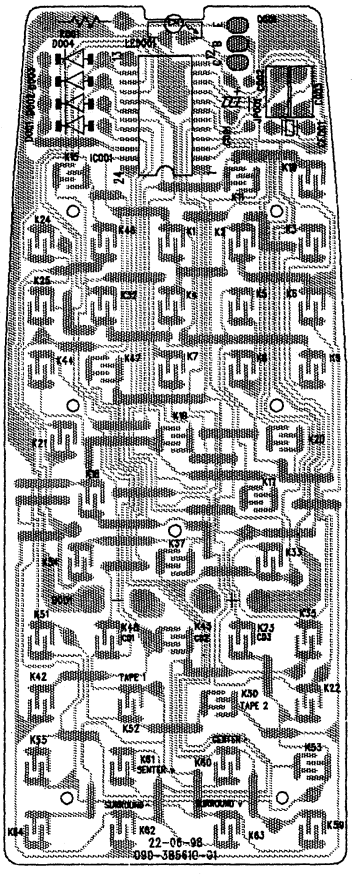


COMPONENT DIAGRAM FOR REMOTE HANDSET

TOP VIEW



BOTTOM VIEW



PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list the part No., Model No. and the description of each part.
   Otherwise, the nondelivery of the part or the delivery of a wrong part may result.
2. Please make sure that part No. is correct when ordering.
   If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in parts list of preliminary service manual may have been the subject of changes, please use this parts list for all future reference.

[NOTE]

1. This parts list lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Sparts list shows those parts in the parts list which are considered particularly important for service.
3. Parts not shown in the parts list and "Common List for Service Parts" will not in principle be supplied.

WARNING

⚠ (*) INDICATED SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LE FABRICANT.

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Parts items listed below since they can cover most of the routine service.

Ref No.		Part No.	Description
1		030-310040-02	D BRIDGE DBF40C
2		130-410051-03H	D ZENER H MTZJ5.1A T52
3		130-314002-30H	D SILICON H 1N4002 T52
4		030-320131-01H	D SILICON H 1SS131 T52
5		030-410240-00H	D ZENER H BZX55/C24 T52
6		030-410240-00H	D ZENER H BZX55/C24 T52
7		130-410068-03H	D ZENER H MTZJ6.8A T52
8		130-410068-03H	D ZENER H MTZJ6.8A T52
9		130-410062-10H	D ZENER H MTZJ6.2B T52
10		130-410150-03H	D ZENER H MTZJ15B T52
11		130-410056-03H	D ZENER H MTZJ5.6C T52
12		130-410300-00H	D ZENER H MTZJ30D T52
13		033-204558-18	IC BA4558
14		033-201876-23	IC LM1876TF
15		084-070410-01	COIL BAL RID7.5X10 T5
16		004-285103-08	WOUND COIL 28.5T DIA 0.8MM
17		031-221375-00	TR 2SB1375 T
18		031-211048-57V	TR 2SA1048 GR T05
19		031-278050-04V	TR SS8050 D T05
20		031-242012-00	TR 2SD2012 T
21		031-211048-57V	TR 2SA1048 GR T05
22		031-232458-25V	TR 2SC2458 Y T05
23		031-241796-00	TR 2SD1796
24		031-221257-00	TR 2SB1257
25	⚠	E1509-003009	R FUSE H RF1S F15 1W 4R7J
26		130-710001-01	D LED MOGB39W OR/GR
27		040-002410-20	SW ROT EC16B24304
28		046-064301-00V	SW TACT TTSA-064301-150
29		130-410056-10H	D ZENER V BZX55-C5V6 T52
30		130-410110-03H	D ZENER H MTZJ11A
31		033-B01601-13	IC UPD750004CU-037 AKWNBA
32		033-204558-18	IC BA4558
33		033-009260-14	IC TC9260P
34		033-004052-14	IC TC4052BP(M)
35		105-101103-08H	COIL FIX EC22-101K-T T52 101K
36		103-156401-04	TUNER FM/AM TFCC1U129A(Y2,U5,Y4,Y6,S1)
37		103-156601-04	TUNER FM/AM/LW TFCC2L116A(E1,E2,E3,RB1,RE1,RE2,RE3)
38		103-156101-04	TUNER FM/MW/SW TFCC(Y7)
39		031-440114-05V	TR R DTC114ESA-TP T05
40		031-211048-57V	TR 2SA1048 GR T05
41		031-430114-05V	TR R DTA114ES-TP T05
42		031-440114-60V	TR R DTC114TSA-TP T05
43		031-278050-04V	TR SS8050 D T05
44		007-060000-30	OSC CE CST6.00MGW 6.00M
45	⚠	E1325-001001	C CE V NS-A E 222M 400AC
46	⚠	001-213859-95	FILTER LINE LF-4ZA-E102
47	⚠	046-000001-00	SW POW SDDLD1-B2-F-1
48		045-012010-00	DETECTOR SWITCH DTS-01 'LUP FUNG' 1P2T
49		130-410062-13H	D ZENER H MTZJ6.2A T52
50		130-410030-03H	D ZENER H MTZJ3.0A T52
51		034-101782-64	IC CXA1782CQ/CR
52		034-206398-18	IC BA6398FP
53		034-K02508-64	IC CXD2508AQ
54		034-904558-74	IC NJM4558M-TE2
55		034-B01701-12	IC M38197MAA621FP AKWBJA
56		033-002401-18	IC BR24C01A
57		035-130001-00	DISPLAY FLD SVA-10SM07
58		036-400032-01	SOCKET OPTICAL GP1F32T
59		060-616106-07	SOCKET 16FMN-BTRK 16P
60		063-BE1201-06	WIRE ASSY T063000561 6P
61		036-606938-00	DETECTOR IR RPM6938-H3
62		031-221443-00V	TR 2SB1443 Q T05
63		031-233576-00V	TR 2SC3576-AC T05
64		112-103311-05	R S-FIX S EVNDCAA03B14 T05 103
65		037-169344-30J	OSC X'TAL 16.934M
66		007-208000-06	OSC CE CST8.00MTW 8.00M
67		007-300455-46	OSC CE CSB455EB 4.55M
68		130-134148-01	D SILICON H 1N4148 T52
69		034-806222-05	IC HT-6222-01
70		130-600563-00	D LED SIR-563ST3F INFRARED
71		031-278050-03	TR SS8050 C
72	⚠	001-66QZN1-26A	POWER TRANSFORMER EI-66 110/127/ 230/240V 50HZ/60HZ IEC STD. PCB(U5,Y7)
73	⚠	001-66QZN1-26	POWERTRANS TE64038F0 (S1,RE1,RB1,RE2,RE3,E1,E2,E3,Y2,Y6)
74	⚠	001-66QZN1-A6	POWER TRANS EI-66 220V 50HZ(Y4)
75	⚠	040-024910-00	SW SEL ESE37311(Y7,U5 ONLY)
76	⚠	061-840041-07	PLUG ADAPTER DW-041(Y7,U5 ONLY)
77	⚠	071-669078-30	AC LINE CORD (U5,E1,E2,E3,Y2,Y7,RE1,RE2,RE3)
78	⚠	071-559078-10	AC LINE CORD(S1)
79	⚠	071-990078-50	AC LINE CORD(Y4)
80	⚠	082-221600-06	FUSE 218 T 250V 1.6A
81	⚠	082-223150-06	FUSE 218 T 250V 3.15A
82		790-010107-01	REMOTE CONTROL(33KEYS)
83		066-953210-ST	SPEAKER UNIT

2. PCB ASSEMBLY

Ref No.	Part No.	Description
3	771-AAQZN10101	MAIN BLK ASS'Y (U5,Y2,RE2,RE3)
	771-AAQZN10104	MAIN BLK ASS'Y (E1,E2,E3)
	771-AAQZN10109	MAIN BLK ASS'Y (Y4,Y6,S1)
	771-AAQZN10116	MAIN BLK ASS'Y (Y7)
	771-AAQZN10117	MAIN BLK ASS'Y (RE1,RB1)
4	771-AAQZN10105	KEY BLK ASS'Y
5	771-AAQZN10110	TUNER AMP BLK ASS'Y QZN1(Y2)
6	771-AAQZN10113	PWR (PRI) BLK ASS'Y (U5,Y7)
	771-AAQZN10106	PWR (PRI) BLK ASS'Y (OTHERS)
7	771-AAQZN10114	PWR(SEC) BLK ASS'Y
8	771-AAQZN10115	POWER SW ASS'Y
9	771-CDQZN10101	CD DOOR SW ASS'Y
10	771-CDQZN10102	CD SYSTEM BLK ASS'Y

3. MAIN BLK PCB ASS'Y

Location	Part No.	Description
BR601	030-310040-02	D BRIDGE DBF40C
C601	E1321-002001	C CE V CK45 T05 F 102Z 50DC
C602	E1321-001021	C CE V CC45 T05 SL301K 50DC
C603	E1321-002004	C CE V CK45 T05 F 104Z 50DC
C604	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C605	E1301-003002	C EC V PJ T05 470M 50DC
C607	E1301-001052	C EC V SSL 332M 50DC
C608	E1321-002004	C CE V CK45 T05 F 104Z 50DC
C609	E1301-001052	C EC V SSL 332M 50DC
C610	E1321-002004	C CE V CK45 T05 F 104Z 50DC
C611	E1301-001017	C EC V SSL T05 220M 50DC
C612	E1301-001018	C EC V SSL T05 221M 16DC
C613	E1301-005004	C EC V ST T05 101M 16DC
C614	E1301-001005	C EC V SSL T05 100M 50DC
C615	E1301-005010	C EC V ST T05 221M 16DC
C616	E1301-003002	C EC V PJ T05 470M 50DC
C617	E1321-002006	C CE V CK45 T05 F 223Z 50DC
C618	E1321-002006	C CE V CK45 T05 F 223Z 50DC

Location	Part No.	Description
C619	E1301-001076	C EC V SSL T05 221M 50DC
C620	E1301-001017	C EC V SSL T05 220M 50DC
C621	E1321-002001	C CE V CK45 T05 F 102Z 50DC
C622	E1301-014013	C EC V RE2 T05 221M 63DC
C623	E1301-001076	C EC V SSL T05 221M 50DC
C624	E1301-001022	C EC V SSL 222M 35DC
C625	E1331-001014	C MY V J T05 473K 100DC
C626	E1301-001007	C EC V SSL T05 101M 16DC
C627	E1301-001005	C EC V SSL T05 100M 50DC
C628	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C629	E1301-001007	C EC V SSL T05 101M 16DC
C630	E1301-001017	C EC V SSL T05 220M 50DC
C631	E1301-001005	C EC V SSL T05 100M 50DC
C632	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C633	E1321-002006	C CE V CK45 T05 F 223Z 50DC
C634	E1321-002006	C CE V CK45 T05 F 223Z 50DC
C635	E1331-001014	C MY V J T05 473K 100DC
C636	E1321-001021	C CE V CC45 T05 SL301K 50DC
C637	E1301-001046	C EC V SSL T05 470M 50DC
C638	E1301-003002	C EC V PJ T05 470M 50DC
C639	E1331-001011	C MY V J 224K 100DC
C640	E1331-001011	C MY V J 224K 100DC
C641	E1321-001021	C CE V CC45 T05 SL301K 50DC
C642	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C643	E1321-001021	C CE V CC45 T05 SL301K 50DC
C644	E1331-001011	C MY V J 224K 100DC
C645	E1331-001011	C MY V J 224K 100DC
C646	E1301-003002	C EC V PJ T05 470M 50DC
C653	E1321-002006	C CE V CK45 T05 F 223Z 50DC
C654	E1321-002006	C CE V CK45 T05 F 223Z 50DC
C684	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C685	E1321-002002	C CE V CK45 T05 F 103Z 50DC
D601	130-410051-03H	D ZENER H MTZJ5.1A T52
D602	130-314002-30H	D SILICON H 1N4002 T52
D603	130-314002-30H	D SILICON H 1N4002 T52
D604	030-320131-01H	D SILICON H 1SS131 T52
D605	030-320131-01H	D SILICON H 1SS131 T52
D606	030-320131-01H	D SILICON H 1SS131 T52
D607	030-320131-01H	D SILICON H 1SS131 T52
D608	030-410240-00H	D ZENER H BZX55/C24 T52
D609	030-320131-01H	D SILICON H 1SS131 T52
D610	030-320131-01H	D SILICON H 1SS131 T52
D611	030-410240-00H	D ZENER H BZX55/C24 T52
D612	030-320131-01H	D SILICON H 1SS131 T52
D613	030-320131-01H	D SILICON H 1SS131 T52
D614	130-314002-30H	D SILICON H 1N4002 T52
D615	130-314002-30H	D SILICON H 1N4002 T52
D616	130-314002-30H	D SILICON H 1N4002 T52
D617	130-314002-30H	D SILICON H 1N4002 T52
D618	030-320131-01H	D SILICON H 1SS131 T52
D619	130-410013-03H	D ZENER H MTZJ13C T52
D620	030-320131-01H	D SILICON H 1SS131 T52
D621	130-410068-03H	D ZENER H MTZJ6.8A T52
D622	030-320131-01H	D SILICON H 1SS131 T52
D623	130-410062-10H	D ZENER H MTZJ6.2B T52
D624	030-320131-01H	D SILICON H 1SS131 T52
D625	130-410150-03H	D ZENER H MTZJ15B T52
D626	030-320131-01H	D SILICON H 1SS131 T52
D627	130-410056-03H	D ZENER H MTZJ5.6C T52
D628	030-320131-01H	D SILICON H 1SS131 T52
D629	130-410300-00H	D ZENER H MTZJ30D T52
D630	130-314002-30H	D SILICON H 1N4002 T52

Location	Part No.	Description
D631	130-314002-30H	D SILICON H 1N4002 T52
D632	030-320131-01H	D SILICON H 1SS131 T52
D633	130-410056-03H	D ZENER H MTZJ5.6C T52
D634	030-320131-01H	D SILICON H 1SS131 T52
D635	030-320131-01H	D SILICON H 1SS131 T52
D636	130-410013-03H	D ZENER H MTZJ13C T52
D637	130-410056-03H	D ZENER H MTZJ5.6C T52
D638	130-410056-03H	D ZENER H MTZJ5.6C T52
IC601	033-204558-18	IC BA4558
IC602	033-201876-23	IC LM1876TF
L601	084-070410-01	COIL BAL RID7.5X10 T5
L602	004-285103-08	WOUND COIL 28.5T DIA 0.8MM
L603	004-285103-08	WOUND COIL 28.5T DIA 0.8MM
P513	060-404395-10	PLUG 3961-04 4P
P514	060-403395-0B	PLUG C-VH-2W 3P
Q601	031-221375-00	TR 2SB1375 T
Q602	031-211048-57V	TR 2SA1048 GR T05
Q603	031-211048-57V	TR 2SA1048 GR T05
Q604	031-211048-57V	TR 2SA1048 GR T05
Q605	031-278050-04V	TR SS8050 D T05
Q606	031-242012-00	TR 2SD2012 T
Q607	031-211048-57V	TR 2SA1048 GR T05
Q608	031-232458-25V	TR 2SC2458 Y T05
Q612	031-241796-00	TR 2SD1796
Q613	031-211048-57V	TR 2SA1048 GR T05
Q614	031-232458-25V	TR 2SC2458 Y T05
Q615	031-221257-00	TR 2SB1257
R601	E1501-001095	R CBF H CR16 T52 1/6W 822J
R602	E1501-001067	R CBF H CR16 T52 1/6W 472J
R603	E1501-001011	R CBF H CR16 T52 1/6W 123J
R604	E1501-001068	R CBF H CR16 T52 1/6W 473J
R605	E1501-001033	R CBF H CR16 T52 1/6W 223J
R606	E1501-001067	R CBF H CR16 T52 1/6W 472J
R607	E1501-001061	R CBF H CR16 T52 1/6W 391J
R608	E1501-002002	R CBF H CR25 T52 1/4W 101J
R609	E1501-002002	R CBF H CR25 T52 1/4W 101J
R610	E1501-001095	R CBF H CR16 T52 1/6W 822J
R611	E1501-001011	R CBF H CR16 T52 1/6W 123J
R612	E1501-001068	R CBF H CR16 T52 1/6W 473J
R613	E1501-001067	R CBF H CR16 T52 1/6W 472J
R614	E1501-001086	R CBF H CR16 T52 1/6W 682J
R617	E1501-001003	R CBF H CR16 T52 1/6W 102J
R618	E1501-001063	R CBF H CR16 T52 1/6W 393J
R619	E1501-001028	R CBF H CR16 T52 1/6W 203J
R620	E1501-001003	R CBF H CR16 T52 1/6W 102J
R621	E1501-001033	R CBF H CR16 T52 1/6W 223J
R622	E1501-001033	R CBF H CR16 T52 1/6W 223J
R623	E1501-001067	R CBF H CR16 T52 1/6W 472J
R624 ⚠	E1509-003009	R FUSE H RF1S F15 1W 4R7J
R625	E1501-003003	R CBF H CR50 T52 1/2W 100J
R626	E1501-001095	R CBF H CR16 T52 1/6W 822J
R627	E1501-001033	R CBF H CR16 T52 1/6W 223J
R628	E1501-001017	R CBF H CR16 T52 1/6W 151J
R629	E1501-001052	R CBF H CR16 T52 1/6W 331J
R630	E1501-001068	R CBF H CR16 T52 1/6W 473J
R631	E1501-001067	R CBF H CR16 T52 1/6W 472J
R632	E1501-001062	R CBF H CR16 T52 1/6W 392J
R633	E1501-001003	R CBF H CR16 T52 1/6W 102J
R634	E1501-002071	R CBF H CR25 T52 1/4W R47J
R635	E1501-001003	R CBF H CR16 T52 1/6W 102J
R636	E1501-001067	R CBF H CR16 T52 1/6W 472J
R637	E1501-002066	R CBF H CR25 T52 1/4W 471J

Location	Part No.	Description
R638	E1501-002002	R CBF H CR25 T52 1/4W 101J
R639	E1501-002034	R CBF H CR25 T52 1/4W 222J
R640	E1501-002076	R CBF H CR25 T52 1/4W 561J
R641	E1501-001033	R CBF H CR16 T52 1/6W 223J
R642	E1501-001068	R CBF H CR16 T52 1/6W 473J
R643	E1501-001085	R CBF H CR16 T52 1/6W 681J
R644	E1501-001085	R CBF H CR16 T52 1/6W 681J
R645	E1501-001052	R CBF H CR16 T52 1/6W 331J
R646	E1501-002076	R CBF H CR25 T52 1/4W 561J
R647	E1501-001086	R CBF H CR16 T52 1/6W 682J
R648	E1501-002004	R CBF H CR25 T52 1/4W 103J
R649	E1501-002017	R CBF H CR25 T52 1/4W 150J
R650	E1501-002068	R CBF H CR25 T52 1/4W 473J
R651	E1501-002002	R CBF H CR25 T52 1/4W 101J
R652	E1501-002002	R CBF H CR25 T52 1/4W 101J
R653	E1501-002034	R CBF H CR25 T52 1/4W 222J
R654	E1501-002034	R CBF H CR25 T52 1/4W 222J
R655	E1501-002034	R CBF H CR25 T52 1/4W 222J
R656	E1501-001003	R CBF H CR16 T52 1/6W 102J
R657	E1501-001063	R CBF H CR16 T52 1/6W 393J
R658	E1501-001028	R CBF H CR16 T52 1/6W 203J
R659	E1501-001003	R CBF H CR16 T52 1/6W 102J
R660	E1501-001017	R CBF H CR16 T52 1/6W 151J
R661	E1501-001027	R CBF H CR16 T52 1/6W 202J
R662	E1501-001003	R CBF H CR16 T52 1/6W 102J
R663 ⚠	E1509-003009	R FUSE H RF1S F15 1W 4R7J
R664	E1501-003003	R CBF H CR50 T52 1/2W 100J
R670	E1501-001005	R CBF H CR16 T52 1/6W 104J
R671	E1501-001005	R CBF H CR16 T52 1/6W 104J
R672	E1501-001033	R CBF H CR16 T52 1/6W 223J
R673	E1501-001033	R CBF H CR16 T52 1/6W 223J
R675	E1501-002076	R CBF H CR25 T52 1/4W 561J
R676	E1501-002076	R CBF H CR25 T52 1/4W 561J
R677	E1501-002076	R CBF H CR25 T52 1/4W 561J
R678	E1501-002076	R CBF H CR25 T52 1/4W 561J
TM601	061-780154-00	TERMINAL PUSH WP4-9
TM602	061-143504-20	J PHONE HSJ2000-01-010H 3.5
W506	060-316205-08	PLUG TUC-P16P-B1 16P
W507	060-304205-08	PLUG TUC-P04P-B1 4P

4. KEY BLK PCB ASS'Y

Location	Part No.	Description
C801	E1321-002008	C CE V CK45 T05 B 103K 50DC
C802	E1321-002008	C CE V CK45 T05 B 103K 50DC
D801	130-710001-01	D LED MOGB39W OR/GR
Q801	031-232458-25V	TR 2SC2458 Y T05
Q802	031-232458-25V	TR 2SC2458 Y T05
R801	E1501-002010	R CBF H CR25 T52 1/4W 122J
R802	E1501-002010	R CBF H CR25 T52 1/4W 122J
R803	E1501-001004	R CBF H CR16 T52 1/6W 103J
R804	E1501-001068	R CBF H CR16 T52 1/6W 473J
RE801	040-002410-20	SW ROT EC16B24304
TS801	046-064301-00V	SW TACT TTSA-064301-150
TS802	046-064301-00V	SW TACT TTSA-064301-150
W504	063-BE3001-07	WIRE ASSY T063000552 7P

5. TUNER AMP BLK PCB ASS'Y

Location	Part No.	Description
C501	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C502	E1301-015011	C EC V MA6.3 T05 470M 10DC
C503	E1321-001044	C CE V CC45 T05 SL101J 50DC
C504	E1321-002004	C CE V CK45 T05 F 104Z 50DC
C505	E1321-001029	C CE V CC45 T05 SL471K 50DC
C506	E1321-001029	C CE V CC45 T05 SL471K 50DC
C507	E1321-001016	C CE V CC45 T05 SL221K 50DC
C508	E1321-001016	C CE V CC45 T05 SL221K 50DC
C509	E1301-015013	C EC V MA T05 100M 25DC
C510	E1301-015013	C EC V MA T05 100M 25DC
C511	E1301-015013	C EC V MA T05 100M 25DC
C512	E1301-001005	C EC V SSL T05 100M 50DC
C513	E1301-001007	C EC V SSL T05 101M 16DC
C514	E1301-001007	C EC V SSL T05 101M 16DC
C515	E1321-002018	C CE V CK45 T05 B 152K 50DC
C516	E1321-002004	C CE V CK45 T05 F 104Z 50DC
C517	E1321-002004	C CE V CK45 T05 F 104Z 50DC
C518	E1321-002018	C CE V CK45 T05 B 152K 50DC
C525	E1301-001017	C EC V SSL T05 220M 50DC
C526	E1301-001007	C EC V SSL T05 101M 16DC
C527	E1301-001007	C EC V SSL T05 101M 16DC
C528	E1321-001044	C CE V CC45 T05 SL101J 50DC
C529	E1321-001044	C CE V CC45 T05 SL101J 50DC
C530	E1321-001044	C CE V CC45 T05 SL101J 50DC
C535	E1301-001018	C EC V SSL T05 221M 16DC
C537	E1301-015013	C EC V MA T05 100M 25DC
C538	E1301-015013	C EC V MA T05 100M 25DC
C539	E1301-015013	C EC V MA T05 100M 25DC
C540	E1321-001038	C CE V CC45 T05 SL220K 50DC
C541	E1301-015013	C EC V MA T05 100M 25DC
C542	E1301-001005	C EC V SSL T05 100M 50DC
C543	E1301-001005	C EC V SSL T05 100M 50DC
C550	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C551	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C552	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C553	E1321-002002	C CE V CK45 T05 F 103Z 50DC
D501	030-320131-01H	D SILICON H 1SS131 T52
D503	030-320131-01H	D SILICON H 1SS131 T52
D504	130-410056-10H	D ZENER V BZX55-C5V6 T52
D505	130-410056-10H	D ZENER V BZX55-C5V6 T52
D506	130-410056-10H	D ZENER V BZX55-C5V6 T52
D507	030-320131-01H	D SILICON H 1SS131 T52
D508	030-320131-01H	D SILICON H 1SS131 T52
D513	130-410110-03H	D ZENER H MTZJ11A
IC501	033-B01601-13	IC UPD750004CU-037 AKWNBA
IC502	033-204558-18	IC BA4558
IC504	033-009260-14	IC TC9260P
IC505	033-004052-14	IC TC4052BP(M)
L501	105-101103-08H	COIL FIX EC22-101K-T T52 101K
P500	063-E06001-19	WIRE ASSY HFG07191302 L600 19P
P500	060-619154-03	SOCKET 51016-1900 19P
P504	060-407205-0B	PLUG S2M-7W 7P
P506	060-316206-08	SOCKET TUC-P16X-B1 16P
P507	060-304206-08	SOCKET TUC-P04X-B1 4P
P508	103-156401-04	TUNER FM/AM TFCC1U129A(Y2,U5,Y4,Y6,S1)
	103-156601-04	TUNER FM/AM/LW TFCC2L116A(E1,E2,E3,RB1,RE1,RE2,RE3)
	103-156101-04	TUNER FM/MW/SW TFCC(Y7)
Q502	031-232458-25V	TR 2SC2458 Y T05
Q503	031-440114-05V	TR R DTC114ESA-TP T05
Q504	031-211048-57V	TR 2SA1048 GR T05
Q506	031-232458-25V	TR 2SC2458 Y T05
Q507	031-232458-25V	TR 2SC2458 Y T05
Q508	031-232458-25V	TR 2SC2458 Y T05
Q509	031-440114-05V	TR R DTC114ESA-TP T05

Location	Part No.	Description
Q510	031-232458-25V	TR 2SC2458 Y T05
Q511	031-430114-05V	TR R DTA114ES-TP T05
Q512	031-440114-60V	TR R DTC114TSA-TP T05
Q513	031-440114-60V	TR R DTC114TSA-TP T05
Q514	031-430114-05V	TR R DTA114ES-TP T05
Q515	031-278050-04V	TR SS8050 D T05
R501	E1501-001034	R CBF H CR16 T52 1/6W 224J(Y2,U5 ONLY)
R502	E1501-001067	R CBF H CR16 T52 1/6W 472J(OTHERS)
R503	E1501-001068	R CBF H CR16 T52 1/6W 473J
R506	E1501-001068	R CBF H CR16 T52 1/6W 473J
R507	E1501-001067	R CBF H CR16 T52 1/6W 472J
R509	E1501-001003	R CBF H CR16 T52 1/6W 102J
R510	E1501-001067	R CBF H CR16 T52 1/6W 472J
R511	E1501-001067	R CBF H CR16 T52 1/6W 472J
R512	E1501-001067	R CBF H CR16 T52 1/6W 472J
R513	E1501-001067	R CBF H CR16 T52 1/6W 472J
R514	E1501-001062	R CBF H CR16 T52 1/6W 392J
R515	E1501-001033	R CBF H CR16 T52 1/6W 223J
R516	E1501-001033	R CBF H CR16 T52 1/6W 223J
R517	E1501-001005	R CBF H CR16 T52 1/6W 104J
R518	E1501-001005	R CBF H CR16 T52 1/6W 104J
R519	E1501-001033	R CBF H CR16 T52 1/6W 223J
R523	E1501-001062	R CBF H CR16 T52 1/6W 392J
R525	E1501-001003	R CBF H CR16 T52 1/6W 102J
R527	E1501-001062	R CBF H CR16 T52 1/6W 392J
R528	E1501-001003	R CBF H CR16 T52 1/6W 102J
R529	E1501-001076	R CBF H CR16 T52 1/6W 561J
R530	E1501-001032	R CBF H CR16 T52 1/6W 222J
R533	E1501-001032	R CBF H CR16 T52 1/6W 222J
R534	E1501-001032	R CBF H CR16 T52 1/6W 222J
R535	E1501-001005	R CBF H CR16 T52 1/6W 104J
R537	E1501-001005	R CBF H CR16 T52 1/6W 104J
R538	E1501-001004	R CBF H CR16 T52 1/6W 103J
R539	E1501-001004	R CBF H CR16 T52 1/6W 103J
R540	E1501-001004	R CBF H CR16 T52 1/6W 103J
R541	E1501-001095	R CBF H CR16 T52 1/6W 822J
R542	E1501-001069	R CBF H CR16 T52 1/6W 474J
R543	E1501-001062	R CBF H CR16 T52 1/6W 392J
R544	E1501-001095	R CBF H CR16 T52 1/6W 822J
R545	E1501-001069	R CBF H CR16 T52 1/6W 474J
R546	E1501-001002	R CBF H CR16 T52 1/6W 101J
R547	E1501-001002	R CBF H CR16 T52 1/6W 101J
R548	E1501-001002	R CBF H CR16 T52 1/6W 101J
R549	E1501-001001	R CBF H CR16 T52 1/6W 100J
R550	E1501-001068	R CBF H CR16 T52 1/6W 473J
R551	E1501-001054	R CBF H CR16 T52 1/6W 333J
R552	E1501-001061	R CBF H CR16 T52 1/6W 391J
R553	E1501-001032	R CBF H CR16 T52 1/6W 222J
R554	E1501-001032	R CBF H CR16 T52 1/6W 222J
R555	E1501-001076	R CBF H CR16 T52 1/6W 561J
R556	E1501-001067	R CBF H CR16 T52 1/6W 472J
R557	E1501-001067	R CBF H CR16 T52 1/6W 472J
R558	E1501-001032	R CBF H CR16 T52 1/6W 222J
R559	E1501-001032	R CBF H CR16 T52 1/6W 222J
R560	E1501-001067	R CBF H CR16 T52 1/6W 472J
R561	E1501-001067	R CBF H CR16 T52 1/6W 472J
R562	E1501-001067	R CBF H CR16 T52 1/6W 472J
R563	E1501-001067	R CBF H CR16 T52 1/6W 472J
R564	E1501-001067	R CBF H CR16 T52 1/6W 472J
R565	E1501-001067	R CBF H CR16 T52 1/6W 472J
R566	E1501-001076	R CBF H CR16 T52 1/6W 561J
R571	E1501-001067	R CBF H CR16 T52 1/6W 472J
R581	E1501-001068	R CBF H CR16 T52 1/6W 473J
R582	E1501-001068	R CBF H CR16 T52 1/6W 473J
R583	E1501-001076	R CBF H CR16 T52 1/6W 561J
R584	E1501-001076	R CBF H CR16 T52 1/6W 561J
R586	E1501-001067	R CBF H CR16 T52 1/6W 472J
R587	E1501-001067	R CBF H CR16 T52 1/6W 472J
R588	E1501-001067	R CBF H CR16 T52 1/6W 472J
R589	E1501-001067	R CBF H CR16 T52 1/6W 472J
R590	E1501-001067	R CBF H CR16 T52 1/6W 472J
R591	E1501-001067	R CBF H CR16 T52 1/6W 472J
R592	E1501-001067	R CBF H CR16 T52 1/6W 472J
R593	E1501-001067	R CBF H CR16 T52 1/6W 472J
R594	E1501-001067	R CBF H CR16 T52 1/6W 472J
TM502	061-470046-00	J PIN AV4-8.3-7 4P
W508	060-613126-07	SOCKET IMSA-9604S-13C 13P
X501	007-060000-30	OSC CE CST6.00MGW 6.00M

6. PWR (PRI) BLK PCB ASS'Y

Location	Part No.	Description
C901 ⚠	E1325-001001	C CE V NS-A E 222M 400AC
C902 ⚠	E1325-001001	C CE V NS-A E 222M 400AC
C906 ⚠	E1325-001001	C CE V NS-A E 222M 400AC
L901 ⚠	001-213859-95	FILTER LINE LF-4ZA-E102
P903	063-502001-11	WIRE ASSY T063000270 11P
P904	060-402395-00	PLUG 3951-03N2 2P

7. PWR(SEC) BLK ASS'Y

Location	Part No.	Description
C907	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C908	123-103560-40	C CE V D E 103M 500DC
W513	063-EE2501-04	WIRE ASSY T063000555 4P
W514	063-EE2501-03	WIRE ASSY T063000551 3P

8. POWER SW PCB ASS'Y

Location	Part No.	Description
P902	060-402395-00	PLUG 3951-03N2 2P
SW902⚠	046-000001-00	SW POW SDDLD1-B2-F-1

9. CD DOOR SW PCB ASS'Y

Location	Part No.	Description
SW450	045-012010-00	DETECTOR SWITCH DTS-01 'LUP FUNG' 1P2T
W402	063-BE2801-02	WIRE ASSY T063000554 2P

10. CD SYSTEM BLK PCB ASS'Y

Location	Part No.	Description
C300	E1331-001002	C MY V J T05 103K 100DC
C301	E1331-001002	C MY V J T05 103K 100DC
C302	E1331-001014	C MY V J T05 473K 100DC
C303	E1331-001009	C MY V J T05 222K 100DC
C304	E1331-001010	C MY V J T05 223K 100DC
C305	E1331-001003	C MY V J T05 104K 100DC
C306	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C307	E1301-016008	C EC V VR T05 101M 10DC
C308	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C309	E1301-016008	C EC V VR T05 101M 10DC
C310	E1331-001009	C MY V J T05 222K 100DC
C311	E1331-001003	C MY V J T05 104K 100DC
C312	E1331-001003	C MY V J T05 104K 100DC
C313	E1331-001003	C MY V J T05 104K 100DC
C314	E1301-016031	C EC V VR T05 4R7M 50DC
C315	E1331-001012	C MY V J T05 333K 100DC
C316	E1331-001002	C MY V J T05 103K 100DC

Location	Part No.	Description
C317	E1321-001007	C CE V CC45 T05 SL101K 50DC
C318	E1301-016019	C EC V VR T05 220M 16DC
C319	E1301-016029	C EC V VR T05 R47M 50DC
C320	E1331-001010	C MY V J T05 223K 100DC
C321	E1331-001002	C MY V J T05 103K 100DC
C322	E1321-001009	C CE V CC45 T05 CH150J 50DC
C323	E1331-001010	C MY V J T05 223K 100DC
C324	E1331-001002	C MY V J T05 103K 100DC
C325	E1301-016008	C EC V VR T05 101M 10DC
C326	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C327	E1301-016018	C EC V VR T05 220M 10DC
C328	E1331-001010	C MY V J T05 223K 100DC
C329	E1301-002016	C EC V VX 102M 16DC
C330	E1301-016032	C EC V VR T05 470M 6.3DC
C331	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C332	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C333	E1331-001014	C MY V J T05 473K 100DC
C334	E1331-004004	C MY V AMZV T05 152K 50DC
C335	E1331-001002	C MY V J T05 103K 100DC
C336	E1321-001016	C CE V CC45 T05 SL221K 50DC
C337	E1301-016029	C EC V VR T05 R47M 50DC
C338	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C339	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C340	E1301-016008	C EC V VR T05 101M 10DC
C341	E1321-001009	C CE V CC45 T05 CH150J 50DC
C342	E1321-001009	C CE V CC45 T05 CH150J 50DC
C343	E1301-016024	C EC V VR T05 221M 16DC
C350	E1321-001062	C CE V CC45 T05 SL391K 50DC
C351	E1321-001062	C CE V CC45 T05 SL391K 50DC
C352	E1321-001062	C CE V CC45 T05 SL391K 50DC
C353	E1321-001007	C CE V CC45 T05 SL101K 50DC
C354	E1321-001007	C CE V CC45 T05 SL101K 50DC
C355	E1301-016003	C EC V VR T05 100M 16DC
C356	E1321-001045	C CE V CC45 T05 SL102J 50DC
C360	E1321-001062	C CE V CC45 T05 SL391K 50DC
C361	E1321-001062	C CE V CC45 T05 SL391K 50DC
C362	E1321-001062	C CE V CC45 T05 SL391K 50DC
C363	E1321-001007	C CE V CC45 T05 SL101K 50DC
C364	E1321-001007	C CE V CC45 T05 SL101K 50DC
C365	E1301-016003	C EC V VR T05 100M 16DC
C366	E1321-001045	C CE V CC45 T05 SL102J 50DC
C367	E1301-016008	C EC V VR T05 101M 10DC
C368	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C369	1301-016003	C EC V VR T05 100M 16DC
C370)	E1301-016003	C EC V VR T05 100M 16DC
C380	E1331-001002	C MY V J T05 103K 100DC
C381	E1331-001002	C MY V J T05 103K 100DC
C382	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C383	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C400	E1301-016018	C EC V VR T05 220M 10DC
C403	E1301-001030	C EC V SSL T05 470M 16DC
C406	E1301-001030	C EC V SSL T05 470M 16DC
C407	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C408	E1321-002002	C CE V CK45 T05 F 103Z 50DC
C409	E1301-001030	C EC V SSL T05 470M 16DC
C410	E1321-001007	C CE V CC45 T05 SL101K 50DC
C411	E1321-001007	C CE V CC45 T05 SL101K 50DC
D300	130-314002-30H	D SILICON H 1N4002 T52
D301	130-314002-30H	D SILICON H 1N4002 T52
D302	130-314002-30H	D SILICON H 1N4002 T52
D303	130-314002-30H	D SILICON H 1N4002 T52
D304	130-314002-30H	D SILICON H 1N4002 T52

Location	Part No.	Description
D305	130-410062-13H	D ZENER H MTZJ6.2A T52
D306	030-320131-01H	D SILICON H 1SS131 T52
D400	130-410030-03H	D ZENER H MTZJ3.0A T52
D401	030-320131-01H	D SILICON H 1SS131 T52
D402	130-314002-30H	D SILICON H 1N4002 T52
D403	130-314002-30H	D SILICON H 1N4002 T52
D404	130-314002-30H	D SILICON H 1N4002 T52
D405	130-314002-30H	D SILICON H 1N4002 T52
D406	130-314002-30H	D SILICON H 1N4002 T52
D407	130-314002-30H	D SILICON H 1N4002 T52
IC300	034-101782-64	IC CXA1782CQ/CR
IC301	034-206398-18	IC BA6398FP
IC302	034-K02508-64	IC CXD2508AQ
IC303	034-904558-74	IC NJM4558M-TE2
IC400	034-B01701-12	IC M38197MAA621FP AKWBJA
IC401	033-002401-18	IC BR24C01A
IN400	035-130001-00	DISPLAY FLD SVA-10SM07
J300	036-400032-01	SOCKET OPTICAL GP1F32T
P300	060-616106-07	SOCKET 16FMN-BTRK 16P
P301	063-BE1201-06	WIRE ASSY T063000561 6P
P401	060-407205-0B	PLUG S2M-7W 7P
P402	060-402205-0B	PLUG S2M-2W 2P
PH400	036-606938-00	DETECTOR IR RPM6938-H3
Q300	031-211048-57V	TR 2SA1048 GR T05
Q301	031-211048-57V	TR 2SA1048 GR T05
Q302	031-440114-05V	TR R DTC114ESA-TP T05
Q303	031-221443-00V	TR 2SB1443 Q T05
Q304	031-221443-00V	TR 2SB1443 Q T05
Q305	031-440114-05V	TR R DTC114ESA-TP T05
Q306	031-430114-05V	TR R DTA114ES-TP T05
Q307	031-440114-05V	TR R DTC114ESA-TP T05
Q350	031-440114-60V	TR R DTC114TSA-TP T05
Q360	031-440114-60V	TR R DTC114TSA-TP T05
Q400	031-233576-00V	TR 2SC3576-AC T05
Q401	031-233576-00V	TR 2SC3576-AC T05
Q402	031-430114-05V	TR R DTA114ES-TP T05
Q403	031-440114-05V	TR R DTC114ESA-TP T05
Q404	031-430114-60V	TR R DTA114TSA-TP T05
Q408	031-440114-05V	TR R DTC114ESA-TP T05
Q409	031-440114-05V	TR R DTC114ESA-TP T05
Q410	031-440114-05V	TR R DTC114ESA-TP T05
R300	E1501-001012	R CBF H CR16 T52 1/6W 124J
R301	E1501-001078	R CBF H CR16 T52 1/6W 563J
R302	E1501-001078	R CBF H CR16 T52 1/6W 563J
R303	E1501-001078	R CBF H CR16 T52 1/6W 563J
R304	E1501-001078	R CBF H CR16 T52 1/6W 563J
R305	E1501-001012	R CBF H CR16 T52 1/6W 124J
R306	E1501-001024	R CBF H CR16 T52 1/6W 183J
R307	E1501-001024	R CBF H CR16 T52 1/6W 183J
R308	E1501-001005	R CBF H CR16 T52 1/6W 104J
R309	E1501-001020	R CBF H CR16 T52 1/6W 154J
R310	E1501-001003	R CBF H CR16 T52 1/6W 102J
R311	E1501-001055	R CBF H CR16 T52 1/6W 334J
R312	E1501-001069	R CBF H CR16 T52 1/6W 474J
R313	E1501-001019	R CBF H CR16 T52 1/6W 153J
R314	E1501-001004	R CBF H CR16 T52 1/6W 103J
R315	E1501-001095	R CBF H CR16 T52 1/6W 822J
R316	E1501-001088	R CBF H CR16 T52 1/6W 684J
R317	E1501-001005	R CBF H CR16 T52 1/6W 104J
R318	E1501-001111	R CBF H CR16 T52 1/6W 514J
R319	E1501-001087	R CBF H CR16 T52 1/6W 683J
R320	E1501-001019	R CBF H CR16 T52 1/6W 153J

Location	Part No.	Description
R321	E1501-001096	R CBF H CR16 T52 1/6W 823J
R322	E1501-001095	R CBF H CR16 T52 1/6W 822J
R323	E1501-001096	R CBF H CR16 T52 1/6W 823J
R324	E1501-001025	R CBF H CR16 T52 1/6W 184J
R325	E1501-001003	R CBF H CR16 T52 1/6W 102J
R326	E1501-001067	R CBF H CR16 T52 1/6W 472J
R327	E1501-001011	R CBF H CR16 T52 1/6W 123J
R328	E1501-001024	R CBF H CR16 T52 1/6W 183J
R329	E1501-001030	R CBF H CR16 T52 1/6W 220J
R330	E1501-001068	R CBF H CR16 T52 1/6W 473J
R331	E1501-001004	R CBF H CR16 T52 1/6W 103J
R332	E1501-001033	R CBF H CR16 T52 1/6W 223J
R333	E1501-001003	R CBF H CR16 T52 1/6W 102J
R334	E1501-001003	R CBF H CR16 T52 1/6W 102J
R335	E1501-001003	R CBF H CR16 T52 1/6W 102J
R336	E1501-001003	R CBF H CR16 T52 1/6W 102J
R337	E1501-001003	R CBF H CR16 T52 1/6W 102J
R338	E1501-001003	R CBF H CR16 T52 1/6W 102J
R339	E1501-001012	R CBF H CR16 T52 1/6W 124J
R340	E1501-001053	R CBF H CR16 T52 1/6W 332J
R341	E1501-001053	R CBF H CR16 T52 1/6W 332J
R342	E1501-001006	R CBF H CR16 T52 1/6W 105J
R343	E1501-001005	R CBF H CR16 T52 1/6W 104J
R344	E1501-001004	R CBF H CR16 T52 1/6W 103J
R345	E1501-001003	R CBF H CR16 T52 1/6W 102J
R346	E1501-001003	R CBF H CR16 T52 1/6W 102J
R347	E1501-001003	R CBF H CR16 T52 1/6W 102J
R348	E1501-001006	R CBF H CR16 T52 1/6W 105J
R349	E1501-001010	R CBF H CR16 T52 1/6W 122J
R350	E1501-001004	R CBF H CR16 T52 1/6W 103J
R351	E1501-001004	R CBF H CR16 T52 1/6W 103J
R352	E1501-001054	R CBF H CR16 T52 1/6W 333J
R353	E1501-001054	R CBF H CR16 T52 1/6W 333J
R354	E1501-001054	R CBF H CR16 T52 1/6W 333J
R355	E1501-001063	R CBF H CR16 T52 1/6W 393J
R356	E1501-001054	R CBF H CR16 T52 1/6W 333J
R357	E1501-001063	R CBF H CR16 T52 1/6W 393J
R358	E1501-001005	R CBF H CR16 T52 1/6W 104J
R359	E1501-001062	R CBF H CR16 T52 1/6W 392J
R360	E1501-001004	R CBF H CR16 T52 1/6W 103J
R361	E1501-001004	R CBF H CR16 T52 1/6W 103J
R362	E1501-001054	R CBF H CR16 T52 1/6W 333J
R363	E1501-001054	R CBF H CR16 T52 1/6W 333J
R364	E1501-001054	R CBF H CR16 T52 1/6W 333J
R365	E1501-001063	R CBF H CR16 T52 1/6W 393J
R366	E1501-001054	R CBF H CR16 T52 1/6W 333J
R367	E1501-001063	R CBF H CR16 T52 1/6W 393J
R368	E1501-001005	R CBF H CR16 T52 1/6W 104J
R369	E1501-001062	R CBF H CR16 T52 1/6W 392J
R370	E1501-001003	R CBF H CR16 T52 1/6W 102J
R380	E1501-001001	R CBF H CR16 T52 1/6W 100J
R381	E1501-001001	R CBF H CR16 T52 1/6W 100J
R382	E1501-001001	R CBF H CR16 T52 1/6W 100J
R383	E1501-001001	R CBF H CR16 T52 1/6W 100J
R384	E1501-001067	R CBF H CR16 T52 1/6W 472J
R400	E1501-001024	R CBF H CR16 T52 1/6W 183J
R401	E1501-001024	R CBF H CR16 T52 1/6W 183J
R402	E1501-001066	R CBF H CR16 T52 1/6W 471J
R403	E1501-001094	R CBF H CR16 T52 1/6W 821J
R404	E1501-001090	R CBF H CR16 T52 1/6W 751J
R405	E1501-001053	R CBF H CR16 T52 1/6W 332J
R407	E1501-001033	R CBF H CR16 T52 1/6W 223J
R408	E1501-001033	R CBF H CR16 T52 1/6W 223J
R409	E1501-001004	R CBF H CR16 T52 1/6W 103J
R413	E1501-001067	R CBF H CR16 T52 1/6W 472J
R414	E1501-001068	R CBF H CR16 T52 1/6W 473J
R415	E1501-001068	R CBF H CR16 T52 1/6W 473J
R416	E1501-001068	R CBF H CR16 T52 1/6W 473J
R417	E1501-001068	R CBF H CR16 T52 1/6W 473J
R418	E1501-001068	R CBF H CR16 T52 1/6W 473J
R419	E1501-001068	R CBF H CR16 T52 1/6W 473J
R420	E1501-002002	R CBF H CR25 T52 1/4W 101J
R421	E1501-001033	R CBF H CR16 T52 1/6W 223J
R422	E1501-001067	R CBF H CR16 T52 1/6W 472J
R423	E1501-001004	R CBF H CR16 T52 1/6W 103J
R424	E1501-001033	R CBF H CR16 T52 1/6W 223J
R425	E1501-001033	R CBF H CR16 T52 1/6W 223J
R430	E1501-001096	R CBF H CR16 T52 1/6W 823J
R431	E1501-001096	R CBF H CR16 T52 1/6W 823J
R432	E1501-001096	R CBF H CR16 T52 1/6W 823J
R433	E1501-001096	R CBF H CR16 T52 1/6W 823J
R434	E1501-001096	R CBF H CR16 T52 1/6W 823J
R435	E1501-001096	R CBF H CR16 T52 1/6W 823J
R436	E1501-001096	R CBF H CR16 T52 1/6W 823J
R437	E1501-001096	R CBF H CR16 T52 1/6W 823J
R438	E1501-001096	R CBF H CR16 T52 1/6W 823J
R439	E1501-001096	R CBF H CR16 T52 1/6W 823J
R440	E1501-001096	R CBF H CR16 T52 1/6W 823J
R441	E1501-001096	R CBF H CR16 T52 1/6W 823J
R442	E1501-001096	R CBF H CR16 T52 1/6W 823J
R443	E1501-001096	R CBF H CR16 T52 1/6W 823J
R444	E1501-001096	R CBF H CR16 T52 1/6W 823J
R445	E1501-001096	R CBF H CR16 T52 1/6W 823J
R446	E1501-001096	R CBF H CR16 T52 1/6W 823J
R447	E1501-001096	R CBF H CR16 T52 1/6W 823J
R448	E1501-001096	R CBF H CR16 T52 1/6W 823J
R449	E1501-001096	R CBF H CR16 T52 1/6W 823J
R450	E1501-001096	R CBF H CR16 T52 1/6W 823J
R451	E1501-001096	R CBF H CR16 T52 1/6W 823J
R452	E1501-001096	R CBF H CR16 T52 1/6W 823J
R453	E1501-001096	R CBF H CR16 T52 1/6W 823J
R454	E1501-001096	R CBF H CR16 T52 1/6W 823J
R455	E1501-001096	R CBF H CR16 T52 1/6W 823J
TS400	046-064301-00V	SW TACT TTSA-064301-150
TS401	046-064301-00V	SW TACT TTSA-064301-150
TS402	046-064301-00V	SW TACT TTSA-064301-150
TS403	046-064301-00V	SW TACT TTSA-064301-150
TS404	046-064301-00V	SW TACT TTSA-064301-150
TS405	046-064301-00V	SW TACT TTSA-064301-150
VR300	112-103311-05	R S-FIX S EVNDCAA03B14 T05 103
W401	063-BE1001-07	WIRE ASSY T063000553 7P
W500	060-419153-19	SOCKET CFG1119-0191 19P
X300	037-169344-30J	OSC X'TAL 16.934M
X400	007-208000-06	OSC CE CST8.00MTW 8.00M

11. RMEOTE ASS'Y

Location	Part No.	Description
C001	E1301-008006	C EC V USA T05 470M 16DC
C002	E1321-001093	C CE V CC45 SL221K 50DC
C003	E1321-001093	C CE V CC45 SL221K 50DC
CF001	007-300455-46	OSC CE CSB455EB 4.55M
D001	130-134148-01	D SILICON H 1N4148 T52
D002	130-134148-01	D SILICON H 1N4148 T52
D003	130-134148-01	D SILICON H 1N4148 T52

Location	Part No.	Description
D004	130-134148-01	D SILICON H 1N4148 T52
IC001	034-806222-05	IC HT-6222-01
JP001	072-726000-00	BARE WIRE AWG#26 1KG=375M
LED001	130-600563-00	D LED SIR-563ST3F INFRARED
Q001	031-278050-03	TR SS8050 C
R001	E1501-002007	R CBF H CR25 T52 1/4W 1R0J

12. TRANSFORMER ASS'Y

Location	Part No.	Description
⚠	001-66QZN1-26A	POWER TRANSFORMER EI-66 110/127/ 230/240V 50HZ/60HZ IEC STD. PCB(U5,Y7)
⚠	001-66QZN1-26	POWERTRANS TE64038F0 (S1,RE1,RB1,RE2,RE3,E1,E2,E3,Y2,Y6)
⚠	001-66QZN1-A6	POWER TRANS EI-66 220V 50HZ(Y4)
⚠	040-024910-00	SW SEL ESE37311(Y7,U5 ONLY)
⚠	061-840041-07	PLUG ADAPTER DW-041(Y7,U5 ONLY)
⚠	071-669078-30	AC LINE CORD (U5,E1,E2,E3,Y2,Y7,RE1,RE2,RE3)
⚠	071-559078-10	AC LINE CORD(S1)
⚠	071-990078-50	AC LINE CORD(Y4)
F601 ⚠	082-221600-06	FUSE 218 T 250V 1.6A
F901 ⚠	082-221600-06	FUSE 218 T 250V 1.6A
F603 ⚠	082-223150-06	FUSE 218 T 250V 3.15A
F604 ⚠	082-223150-06	FUSE 218 T 250V 3.15A

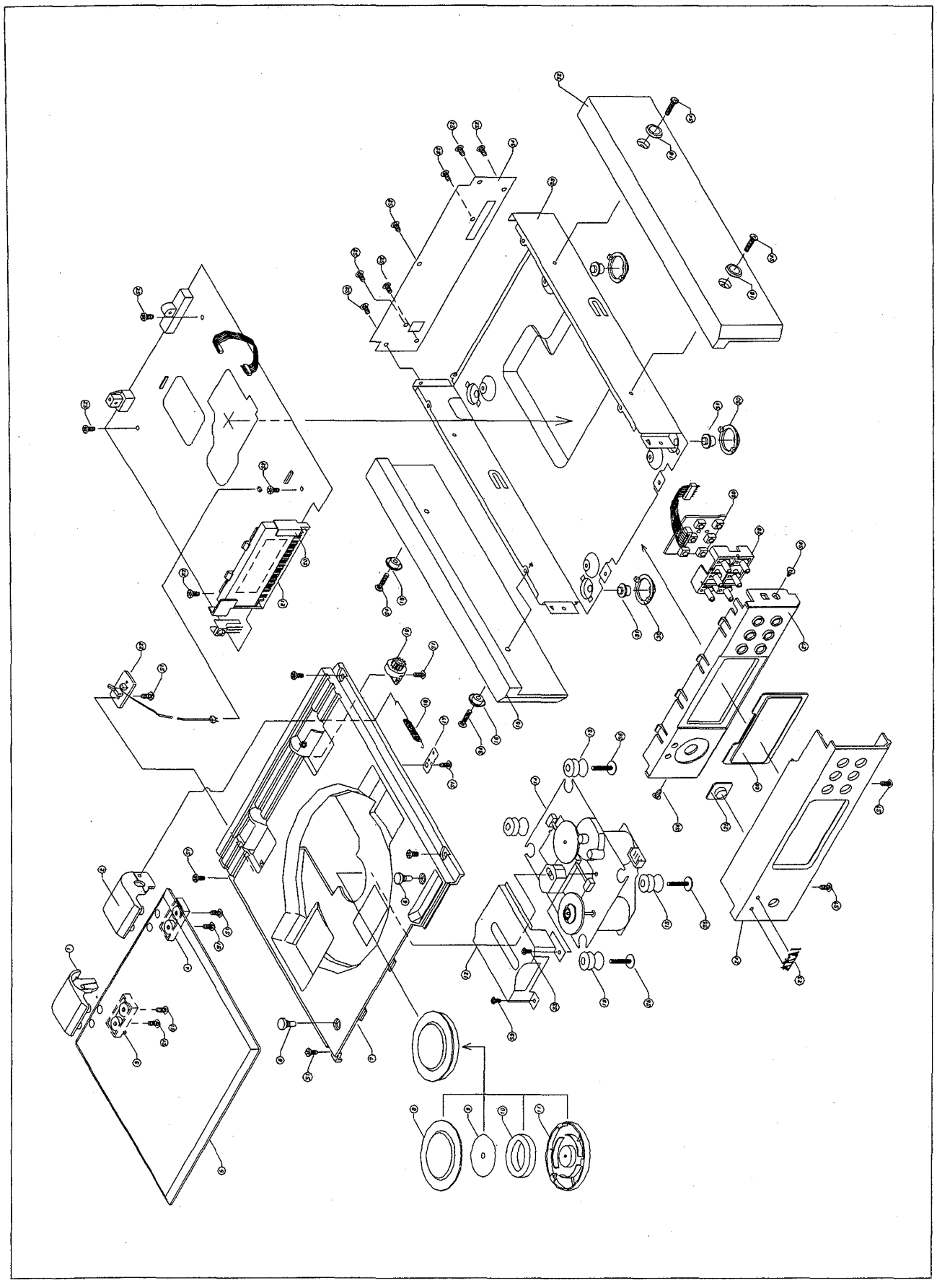
13. COSMETIC ASS'Y

Ref No.	Part No.	Description
1	060-619153-09	SOCKET 702CFX-006-00 19P
2	201-010111-10S	CAB TP RCN 0101 S
3	201-AA2401-02S	CAB TP CD-QZN1 S
4	201-AA2501-02S	CAB TP AA-QZN1 S
5	203-010121-01S	CAB BM RCN 0101 S
6	207-AA2501-01S	FT AA-QZN1 S
7	207-AA2501-01S	FT AA-QZN1 S
8	210-010101-01S	CV BAT RCN 0101 S
9	227-AA2401-02S	PNL+INNER CD-QZN1 S
10	227-AA2402-01S	CV+MAG TP CD-QZN1 S
11	227-AA2403-01S	CV+MAG BM CD-QZN1 S
12	227-AA2404-01S	CV+MAG TP CD-QZN1 S
13	227-AA2501-02S	PNL+INNER AA-QZN1 S
14	229-AA2401-02S	MTB+DR CD-L CD-QZN1 S
15	229-AA2402-02S	MTB+DR CD-R CD-QZN1 S
16	229-AA2403-01S	MTB BM-L CD-QZN1 S
17	229-AA2405-01S	MTB+BM-R CD-QZN1 S
18	262-AA2501-01K	L+PWR AA-QZN1 K
19	263-AA2401-01K	LEN FLD CD-QZN1 K
20	263-AA2402-01K	L+RCN CD-QZN1 K
21	286-AA2501-01S	NPM AKAI S
22	286-AA2501-01S	NPM AKAI S
23	291-AA2501-02S	KB+PWR AA-QZN1 S
24	291-AA2502-02S	BUT/SLT/LOUD AA-QZN1 S
25	292-AA2401-02S	KB FUNC CD-QZN1 S
26	310-040804-31	PBAG 4"X8"X0.04 DT
27	330-AA2401-01	RP+TOP CD-QZN1 Y
28	330-AA2501-01	FT QZN1 Y
29	330-AA2501-01	FT QZN1 Y
30	334-385606-01	RP+ISLTR 3856 Y
31	334-010107-01	KYPD RCN 33K 0101 Y
32	384-AA2501-01	CV SHT AA-QZN1 H
33	389-AA2401-01	PLT+CV CD CD-QZN1 L
34	404-AA2401-02	PNL FR CD-QZN1 4A
35	404-AA2501-03	PNL FR AA-QZN1 4A

Ref No.	Part No.	Description
36	407-AA2401-01	CHS BM CD-QZN1 4F
37	407-AA2501-01	CHS BM AA-QZN1 4F
38	411-010107-01	NP RCN FOR RC-QZ-N1
39	428-385101-01	BKT+HLDR H 3851
40	428-AA2401-01	BKT+MAG CD-QZN1 4F
41	428-AA2402-01	BKT+SPRING CD-QZN1 4F
42	428-AA2501-01	BKT AA-QZN1 4F
43	437-AA2501-01	WHR+SIDE QZN1 4F
44	437-AA2501-01	WHR+SIDE QZN1 4F
45	471-AA2401-01	SPG+DR CD CD-QZN1
46	472-010101-01	PLT BAT + 0101
47	473-010101-01	SSHT BAT - 0101
48	474-010101-01	SPG BAT +- 0101
49	481-AA2501-01	HTSK AA-QZN1 4A
50	483-AA2401-01	SHD PLT CD-QZN1 4F
51	489-383801-01	MAG RNG FM 3838
52	495-AA2401-05	PNL RR CD-QZN1 4F
53	495-AA2502-03	PNL RR AA-QZN1(U5) 4F
54	495-AA2502-04	PNL RR AA-QZN1(Y7) 4F
55	495-AA2502-11	PNL RR AA-QZN1(RE1) 4F
56	495-AA2502-15	PNL RR AA-QZN1(RB1) 4F
57	495-AA2502-17	PNL RR AA-QZN1(Y4) 4F
58	495-AA2502-18	PNL RR AA-QZN1(Y2) 4F
59	495-AA2502-19	PNL RR AA-QZN1(Y6) 4F
60	495-AA2502-20	PNL RR AA-QZN1(RE2) 4F
61	495-AA2502-21	PNL RR AA-QZN1(RE3) 4F
62	495-AA2502-16	PNL RR AA-QZN1(S1) 4F
63	495-AA2502-12	PNL RR AA-QZN1(E1) 4F
64	495-AA2502-13	PNL RR AA-QZN1(E2) 4F
65	495-AA2502-14	PNL RR AA-QZN1(E3) 4F
66	503-AA2501-01	WD S-L QZN1
67	503-AA2502-01	WD S-R QZN1
68	522-AA2501-00	PMSK AA-QZN1
69	534-AA2501-01	FBP AA-QZN1
70	569-330201-01	LB+QC PASSED 3302
71	608-407008-10	MS TAP4X8 NIP +H
72	611-260206-10 a	TS FLT2.6X6 A NIP +H
73	615-260116-60B	TS BWH2.6X16 B CMT +H
74	619-260206-00	TS P-B2.6X6 A BZN +H
75	619-300206-00	TS P-B3X6 A BZN +H
76	619-300208-00	TS P-B3X8 A BZN +H
77	619-300208-00	TS P-B3X8 A BZN +H
78	619-300216-00	TS P-B3X16 A BZN +H
79	619-300216-00	TS P-B3X16 A BZN +H
80	619-300306-00	TS P-C3X6 AB BZN +H
81	619-300306-00	TS P-C3X6 AB BZN +H
82	620-907520-12B	NUT9X12X2 4D
83	633-055042-07	WHR SPG4.2X7.6X1
84	650-381301-01	BSHG RELIEF 3813
85	680-101261-01	TIE CABLE
86	680-125503-01	TIE WRE

14. EXPLODED VIEW DIAGRAM

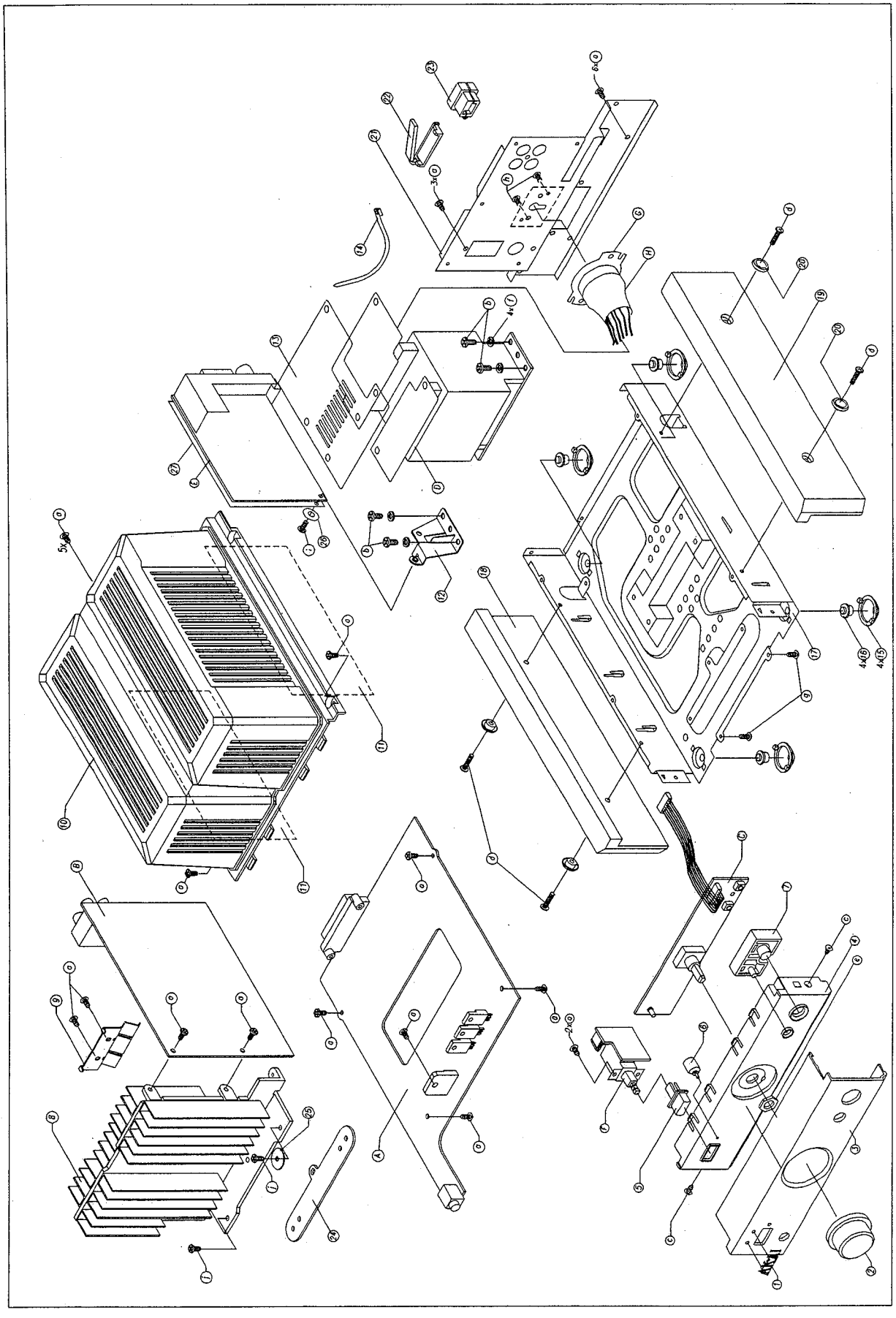
A. CD SECTION



PARTS LIST FOR EXPLODED VIEW DIAGRAM

NO.	PART NO.	DESCRIPTION	QTY.
1	229-AA2401-02S	CD DOOR BRACKET -L	1
2	229-AA2402-02S	CD DOOR BRACKET -R	1
3	229-AA2403-01S	BOTTOM BRACKET -L	1
4	229-AA2405-01S	BOTTOM BRACKET -R	1
5	389-AA2401-01	CD COVER PLATE	1
6	330-AA2401-01	TOP BUBBER	2
7	201-AA2411-02S	TOP CABINET	1
8	227-AA2402-01S	CV+MAG TP(W/O CHARACTERS)	1
	227-AA2404-01S	CV+MAG TP(W/ CHARACTERS)	1
9	429-AA2401A01	BKT+MAG	1
10	492-383801A01	MAG RNG FM	1
11	227-AA2403-01S	CV+MAG BM	1
12	481-AA2401A01	SHD PLT	1
13	334-385606-01	RP+ISLTR	4
14	747-021301-02	ASY CD MECH TL	1
15	503-AA2501-01	WOOD Side-L	1
16	437-AA2501-01	WHR+Side	4
17	429-AA2402A01	BKT+SPRING	1
18	477-AA2401A01	SPG+DR CD	1
19	703-AA2401A01	DAMPER GEAR ASS'Y	1
20	229-AA2404-01S	FLD HOLDER	1
21		MAIN PCB ASS'Y	1
22		DETECTOR SW PCB ASS'Y	1
23	286-AA2501-01S	NAME PLATE AKAI	1
24	405-AA2401A02	FRONT PANEL	1
25	263-AA2402-01K	REMTE LENS	1
26	263-AA2401-01K	LENS FLD	1
27	227-AA2401-02S	INNER PANEL	1
28	292-AA2401-02S	KNOB FUNCTION	1
29		KEY PCB ASS'Y	1
30	207-AA2501-01S	FOOT	4
31	330-AA2501-01	RUBBER FOOT	4
32	503-AA2502-01	WOOD SISE-R	1
33	403-AA2401A01	CHASSIS BOTTOM	1
34	402-AA2401A04	PANEL REAR	1
		(FOR E1/E2/E3/S1/RB1/RE1/RE2/RE3)	
	402-AA2401A05	PANEL REAR(FOR U5/Y2/Y6/Y7)	1
	402-AA2401A06	PANEL REAR(FOR Y4)	
S1	620-300608A70	TS P-B3×8 A BZN +H	11
S2	620-300606A70	TS P-B3×6 A BZN +H	11
S3	620-260606A70	TS P-B2.6×6 A BZN +H	2
S4	620-300616A70	TS P-B3×16 A BZN +H	4
S5	615-260116A60B	TS BWH2.6516 B CMT +H	4
S6	621-300606A70	TS P-C3×6 AB BZN +H	2
S7	620-300608AA0	TS P-B3×8 A CZN +H	2

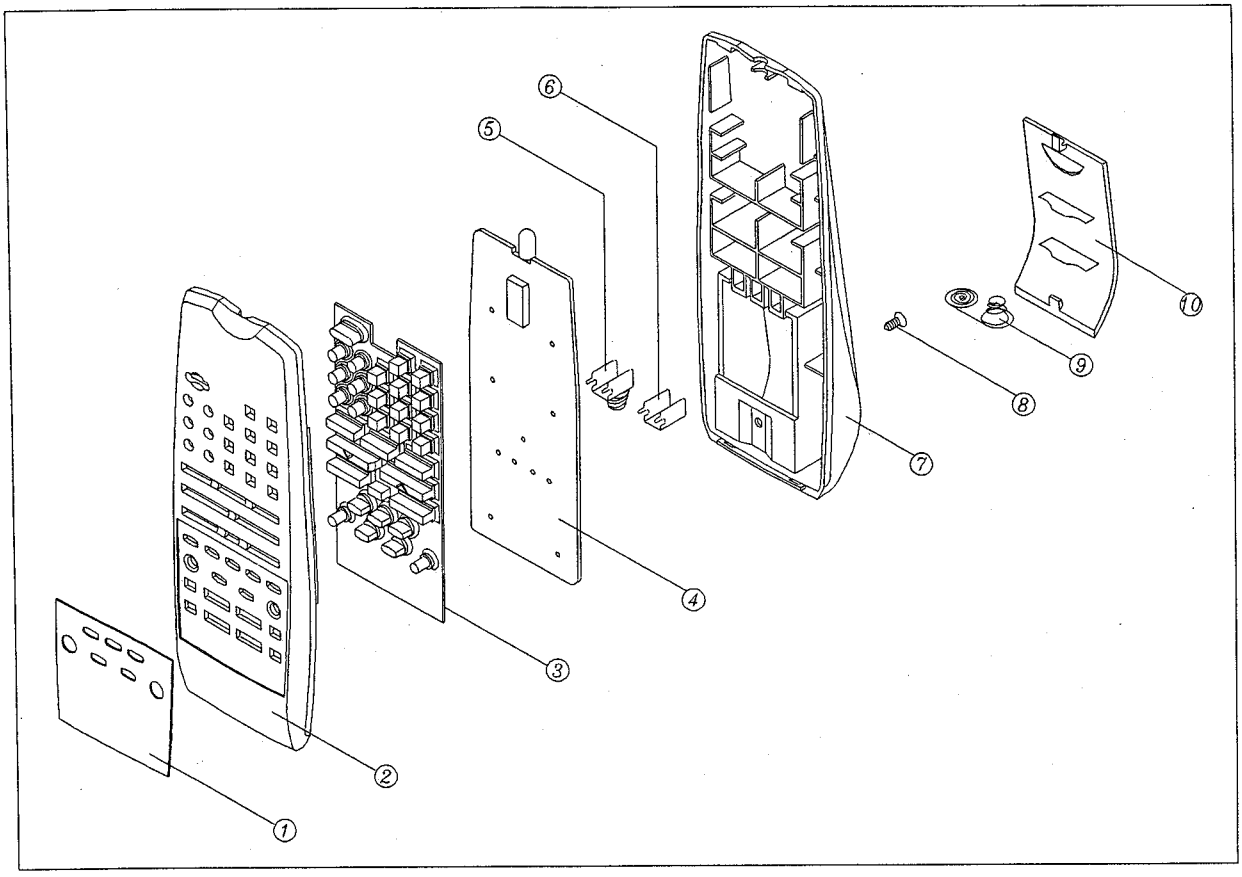
B. AMPLIFIER SECTION



PARTS LIST FOR EXPLODED VIEW DIAGRAM (AMPLIFIER SECTION)

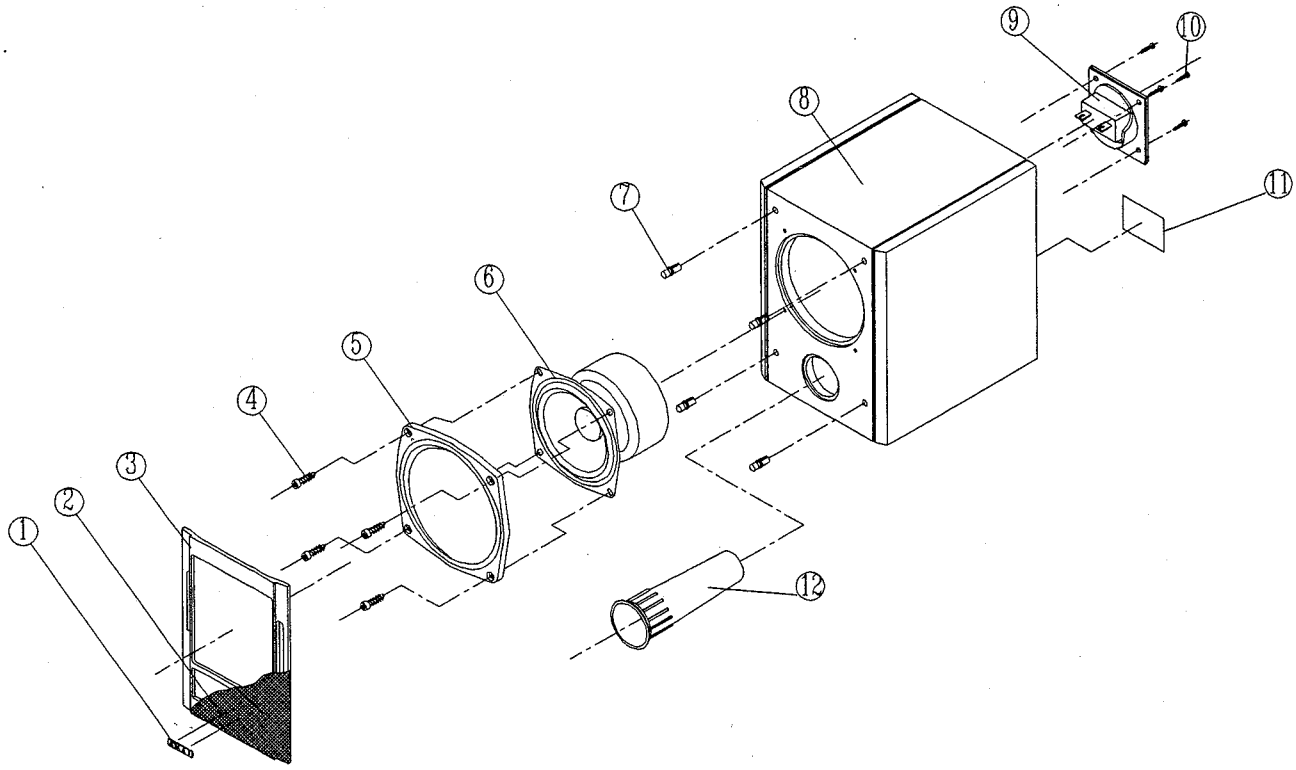
REF. NO.	PART NO.	DESCRIPTION	QTY.
1	286-AA2501-01S	AKAI' NAME PLATE	1
2	739-AA2502A02	VOLUME KNOB	1
3	404-AA2501A03	FRONT PANEL(FOR QZ-N1)	1
	404-AA2501A04	FRONT PANEL(FOR QZ-N1R)	1
4	227-AA2501-002S	INNER PANEL	1
5	291-AA2501-02S	POWER KNOB	1
6	262-AA2501-01K	POWER LENS	1
7	291-AA2502-02S	SELECT BUTTON	1
8	480-AA2511A01	HEAT SINK	1
9	429-385101A01	BKT+HLDR	1
10	201-AA2511-02S	TOP CABINET	1
11	522-AA2501-00	MASK	2
12	429-AA2511A11	TUNER BRACKET	1
13	384-AA2521-01	SHIELD COVER	1
14	680-101261-01	CABLE TIE	3
15	207-AA2501-01S	FOOT	4
16	330-AA2501-01	BUBBER FOOT	4
17	407-AA2511A01	BOTTOM CHASSIS	1
18	503-AA2501-01	Side WOOD 'L'	1
19	503-AA2502-01	Side WOOD 'R'	1
20	437-AA2501-01	Side WASHER	4
21	495-AA2501-22	REAR PANEL(FOR RE2)	1
	495-AA2501-23	REAR PANEL(FOR RE3)	1
	495-AA2501-24	REAR PANEL(FOR RE1)	1
	495-AA2501-25	REAR PANEL(FOR E1)	1
	495-AA2501-26	REAR PANEL(FOR E2)	1
	495-AA2501-27	REAR PANEL(FOR E3)	1
	495-AA2501-28	REAR PANEL(FOR RB1)	1
	495-AA2501-29	REAR PANEL(FOR S1)	1
	495-AA2501-30	REAR PANEL(FOR Y4)	1
	495-AA2501-31	REAR PANEL(FOR Y2)	1
	495-AA2501-32	REAR PANEL(FOR Y6)	1
	495-AA2512-05	REAR PANEL(FOR Y7)	1
	495-AA2512-06	REAR PANEL(FOR U5)	1
22	060-619153-09	SOCKET	1
23	650-381301-01	BSHG RELIEF	1
24	534-AA2501-01	FIBER PAPER	1
25	530-080030-10	FBP WHR	1
26	634-070033A05	WHR	1
27	550-AA2501-01	PSHD	1
A		AMP PCB ASS'Y	1
B		VOL PREAMP PCB ASS'Y	1
C		KEY PCB ASS'Y	1
D	001-66QZN1-26A	POWER TRANSFORMER EI-66 110/127/ 230/240V 50HZ/60HZ IEC STD. PCB(U5,Y7)	1
	001-66QZN1-26	POWERTRANS TE64038F0 (S1,RE1,RB1,RE2,RE3,E1,E2,E3,Y2,Y6)	1
	001-66QZN1-A6	POWER TRANS EI-66 220V 50HZ(Y4)	1
E	103-156401-04	TUNER FM/AM TFCC1U129A(Y2,U5,Y4,Y6,S1)	1
	103-156601-04	TUNER FM/AM/LW TFCC2L116A(E1,E2,E3,RB1,RE1,RE2,RE3)	1
	103-156101-04	TUNER FM/MW/SW TFCC(Y7)	1
F		POW. SW. PCB ASS'Y	1
G	040-024910-00	SW. SEC.(FOR VERSION U5,Y7)	1
H	E3403-001001	TUBE(FOR VERSION U5,Y7)	1
a	620-300608A70	TS P-B3×8	22
b	606-407008A10	MS TAP4×8	4
c	621-300606A70	TS P-C3×6	2
d	620-300616A70	TS P-B3×16	4
e	660-907520A12B	NUT	1
f	633-055042A07	SPR. WASHER	4
g	620-300608AA0	TS P-B3×8	2
h	614-305008A00	TS BID3×8(FOR VERSION U5,Y7)	2
I	604-305008A10	MS BID3×8	1
j	620-300610A70	TS P-B3×10	2

REMOTE HANDSET UNIT



REF. NO.	PART NO.	DESCRIPTION
1	411-010107-01	REMOTE NAME PLATE
2	201-010111-01S	REMOTE TOP CABINET
3	334-010107-01	REMOTE CONTATIVE RUBBER
4	090-385604-01	REMOTE PCB BOARD
5	473-010101-01	BATT CONTACT SPRING SHEET
6	472-010101-01	BATT CONTACT PLATE +VE
7	203-010121-01S	REMOTE BOTTOM CABINET
8	611-260206-10	SELF-TAPPING SCREW K/T 26×6mm
9	474-010101-01	BATT CONTACT SPRING WIRE
10	210-010101-01S	REMOTE BATTERY COVER
*	790-010107-01	REMOTE HANDSET(33 KEYS) FOR MODEL QZN1 RC-QZN1

SPEAKER



1	286-385002-02S	NAME PLATE 'AKAI'	1
2	583-052801-01	SPK. CLOTH	1
3	239-052801-01S	FRAME NET	1
4	628-400218-02A	WOOD SCREW HEXAGON BLACK NICKLE PLATING	4
5	232-052801-02R	COVER WOOFER	1
6	066-953240-ST	SPK. UNIT	1
7	229-051801-01S	CATCHER	4
8	505-052801-01	SPK. BOX ASS'Y	1
9	061-052801-01	SPK. TERMINAL JACK	1
10	610-300212-30	SELF TAPPING SCREW3X12BLACK	4
11	569-052801-01	SPAKER LABEL	1
12	218-052801-01R	BASS REFEL POAT	1